

SIERRA LEONE.

Annual Report

OF THE

Medical and Sanitary Department

For the Year 1936.

Price 2s. 6d.





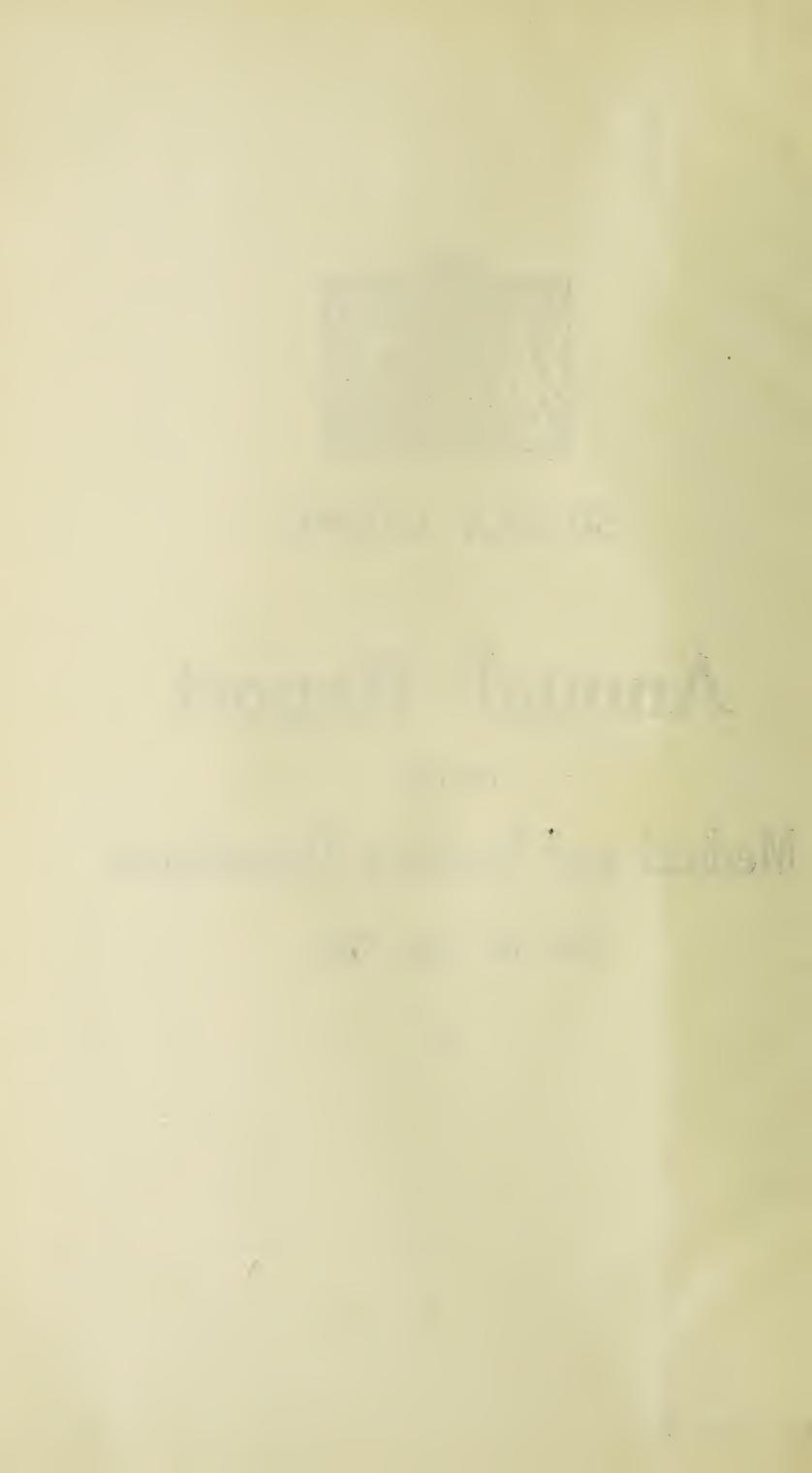
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MEDICAL DEPARTMENT,
FREETOWN, SIERRA LEONE,
July, 1937.

ANNUAL MEDICAL AND HEALTH REPORT, 1936.

SIR,

I have the honour to submit, for the information of His Excellency the Governor and for transmission to the Right Honourable the Secretary of State for the Colonies, the Medical Report on the Health and Sanitary conditions of Sierra Leone for the year 1936, together with the Returns, etc., appended thereto.

I have the honour to be,

SIR,

Your obedient servant,

PHILIP D. OAKLEY,

Director of Medical Services.

THE HONOURABLE

THE COLONIAL SECRETARY,

FREETOWN.

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Annual Report of the Medical and Sanitary Department for the Year 1936.

1—Administration.

(a) ESTABLISHMENT, INCLUDING VACANCIES, ACTING APPOINTMENTS AND PROMOTIONS.

MEDICAL AND HEALTH STAFF.

- I Director of Medical Services
- 1 Senior Specialist
- 1 Assistant Director of Medical Services (Health)
- 1 Medical Officer (Health)
- 2 Senior Medical Officers
- 10 Medical Officers of the Colonial Medical Services
- 1 Scnior Medical Officer (Sierra Leone)
- 1 Pathologist (Sierra Leone)
- 5 Medical Officers (Sierra Leone)
- 1 Chief Sanitary Superintendent
- 2 Sanitary Superintendents.

EUROPEAN NURSING STAFF.

- 2 Senior Nursing Sisters
- 5 Nursing Sisters.

SUBORDINATE MEDICAL AND HEALTH STAFF.

- 1 Chief Dispenser
- 1 Assistant Chief Dispenser
- 1 Hospital Warden
- 1 Chief Store-keeper
- 10 First Class Dispensers
- 10 Second Class Dispensers
- 18 Third Class Dispensers
- 33 Male Nurses and Apprentices
- 23 Female Nurses and Probationers
- 4 Midwives
- 3 Health Visitors
- 42 Sanitary Inspectors and Learners
 - I Head Attendant, Lunatic Asylum
 - I Assistant Head Attendant, Lunatic Asylum
 - 1 Matron, Lunatic Asylum
 - 3 Female Attendants, Lunatic Asylum
- 10 Male Attendants, Lunatic Asylum
- 1 Laboratory Assistant.

There are, in addition to above, cooks, stokers, gate-keepers, watchmen, labourers, hospital porters, carpenter, motor-ambulance driver, etc.

2.

CLERICAL STAFF.

There are 17 clerks—1 Chief Clerk, 2 second grade, 14 third grade.

TEMPORARY ASSISTANCE.

Owing to shortage of Medical Officers due to illness, Dr. G. E. C. Reffell was engaged temporarily from 8th June to 2nd July, inclusive.

PRINCIPAL ACTING APPOINTMENT.

Dr. W. Allan, acted as Medical Officer (Health) from 1st January to 16th June.

NEW APPOINTMENTS.

Miss E. M. Atkins, appointed Nursing Sister on the 1st April and arrived Freetown on 11th April.

Dr. C. A. McComiskey, appointed Medical Officer 12th August and arrived Freetown 22nd August.

Miss A. Stewart, appointed Nursing Sister on 30th September and arrived Freetown on 10th October.

TRANSFERS.

Miss M. C. Jennings, Nursing Sister, was transferred to Nigeria on 17th October.

Mr. E. S. George, Deputy Harbour-Master (Port and Marine Department), was transferred to this department *vice* Mr. S. G. Randall, Chief Clerk, transferred to the Port and Marine Department.

RETIREMENTS.

Dr. A. Cathcart, Medical Officer, retired on the 23rd May, on medical grounds.

Mr. M. O. Frazer, Chief Dispenser, retired on the 15th September.

(b) LIST OF ORDINANCES, ETC., AFFECTING PUBLIC HEALTH ENACTED DURING THE YEAR.

ORDINANCES.

Medical Practitioners, Dentists and Druggists (Amendment) Ordinance, 1936 (No. 22 of 1936).

ORDERS IN COUNCIL.

Protectorate Health Areas (Amendment) Order in Council, 1936 (No. 16 of 1936).

Protectorate Health Areas (Amendment) (No. 2) Order in Council, 1936 (No. 19 of 1936).

Protectorate Health Areas (Amendment) (No. 3) Order in Council, 1936 (No. 24 of 1936).

Port Loko Health Area (Improvement Rate) Order in Council, 1936 (No. 26 of 1936).

Marampa Railway (Pepel) Health Area (Improvement Rate) Order in Council, 1936 (No. 27 of 1936).

Marampa Concession Health Area (Improvement Rate) Order in Council, 1936 (No. 28 of 1936).

Makeni Health Area (Improvement Rate) Order in Council, 1936 (No. 30 of 1936).

Kambia Health Area (Special Health Authority and Improvement Rate) Order in Council, 1936 (No. 31 of 1936).

Protectorate Health Areas (Amendment) (No. 4) Order in Council, 1936 (No. 32 of 1936).

GOVERNOR'S ORDERS.

Exemption from House Tax (Protectorate Midwives Houses) Order, 1936 (No. 1 of 1936).

ByE-LAWS.

Freetown (Slaughter-house) (Amendment) Bye-Law, 1936.

(c) FINANCIAL.

3.	The followi	ng table gives	the revenue a	nd expenditure	for the	years 1935	and 1936.

MEDICAL B	EVEN	UE.			193	5.	1	.936	
**					8.		£	s.	d.
Hospital receipts		• • •	• • •	961	4	()	1,069	19	8
Sundry receipts (out-	patien	ts' fees, e	etc.)	1,059	11	4	1,219	0	7
Druggist fees	•			1	0	0		_	
Maintenance of lunatic	s	• • •		119	19	5	189	0	()
Departmental fines	•	• • •		4	17	6	4	18	9
Total	• • •	• • •		£2,146	12	3	£2,482	19	0
MEDICAL E	XPENI	HTURE.			1933	5.	1	936	
				£			£		d.
Personal Emoluments	• • •			35,349			36,158		
Other Charges		• • •		.11,567	3	2	12,585	8	9
Total		• • •	~ (N	£46,916	16	10	£48,743	16	7
Sanitary I	Reven	IIIe.		19:	35		193	6	
		0.23		£		d.	£		d.
Sanitary Services	• • •	• • •		3	3	9		_	•
Maintenance of person	s in qu	narantine			-				
Total	• • •			£3	3	9	*		_
Sanitary Expendit	URE.			19 £		d.	193 £		d.
Personal Emoluments		• • •		8,446	7	0	8,908	2	10
Other Charges	•••	•••		8,569	8	2	9,241	7	0
Total	• • •			£17,015	15	2	£18,149	9 1	10

4. Ratios of combined Medical and Sanitary votes to total estimated revenue for the past five years:—

Year. 1932					£ 75,407	1	•	10.80
	• • •	• • •	0 0 0		•			
1933	• • •		• • •		73,092	1	٠	10.67
1934	• • •	• • •	• • •		69,875	1	:	9.56
1935		• • •		• • •	66,094	1	:	10.29
1936	• • •				66,910	1	•	11. 9

ANALYSIS OF HOSPITAL EXPENDITURE ON DIETED HOSPITALS FOR THE YEAR 1936.

15	Total Sum Recoverable from Paying Patients.	£ s. d 833 13 11	236 5 9	230 2 6	1	9 15 3	
. 14	5, 6, 8, 11 and 12 per Patient per Day.	£ s. d. 0 5 6½	0 0 8	0 0 5	0 0 24 314	0 0 3	
13	Total of 5, 6, 8, 11 and 12.	£ s. d. 604 13 3	1,433 0 4	698 3 84	$682 2 5\frac{3}{4}$	74 16 ()	
12	Miscellaneous: Cleaning Materials, Hospital Equipment, Replacements.	£ s. d. 9 16 0	59 3 7	3 0 0	3 0 0	1	
	Fuel, Light. Total.	£ s. d.	63 17 0	18 9 0	18 9 0	13 12 5	
10	7 and 9 per Patient per Day.	£ s. d.				-	
6	8 per Patient per Day.	£ s. d.				1	 -
	Wines, Spirits, Minerals, Tobacco, Ice. Total.	£ s. d. 12 18 11	9 4 0	40 15 0	15 10 9	2 14 0	
9	5 and 6 per Patient per Day.	£ s. d. 0 5 1	0 0	0 0	0 0	0 0 2½	
9	Fresh Provisions. Total.	£ s. d. 376 3 6	928 17 5	553 19 7	564 11 ()	16 2 1	
10	Provisions from Store-keeper. Total.	£ s. d. 179 19 6	371 18 4	82 0 13	80 11 83	12 7 6	
4	letiqsoH .sys.U	2,186	36,235	33,044	34,441	5,549	
8	Daily Average Xumber of Patients.	5.6	26.66	90.53	94.35	15.2	
2	Total Number of Patients.	173	2,658	1,091	1,042	561	
1	Institution.	Nursing Home	Connaught Hospital	Lunatic Asylum	Kissy Infirmaries	Bouthe Hospital	

II-Public Fiealth.

(a) GENERAL REMARKS.

- (i) GENERAL DISEASES.
- 7. The number of patients attending the various hospitals in the Colony and Protectorate shows an increase of 13,348. The greatest increase being in the Protectorate. This result is very satisfactory as it shows that the people are becoming more educated to Buropean medicine. It is not thought that the increase is due to the people being in a poorer state of health because, owing to the continued prosperity, the standard of living has improved. This fact is borne out by the decrease in avitaminosis. The incidence of malaria is about the same but the number of cases of yaws and chronic rheumatism have increased. The increase in yaws is probably due to the increased facilities for treatment. No major epidemic has occurred.
- 6. The outbreak of smallpox which commenced in 1932 is gradually declining owing to vaccination. Twelve cases were imported into Freetown from the Protectorate. These cases gave rise to a small localised outbreak which was easily controlled.
- 7. One case of Yellow Fever in an African adult was reported from Daru, a Protectorate station 214 miles distant from Freetown. This case will receive further consideration under the appropriate heading.
- 8. Three cases of tropical typhus were definitely diagnosed by means of the Weil Felix reaction. One of these cases occurred in an European undertaking the investigation of the disease and was undoubtedly a laboratory infection.
 - 9. The following is a short report by Professor R. M. Gordon:
 - "TROPICAL TYPHUS IN SIERRA LEONE.
 - "In the past, tropical typhus, although a disease of considerable importance in North and East Africa, has not been recorded from the British Colonies in West Africa. It will be seen from the figures already quoted in the report that three cases of the disease occurred in Freetown during the year 1936; up to the time of writing, March, 1937, three further cases of typhus have been diagnosed. It is not yet possible to state how widespread is its range in Sierra Leone, but it seems probable that further investigation will establish its presence in the Protectorate as well as in the Colony.
 - "The experiments at present being carried on in the Liverpool School of Tropical Medicine Laboratory in Freetown suggest that two types of the disease are occuriring amongst the human population, and that the so-called "X19" type is endemic amongst the rat population. In the past Sierra Leone has been fortunate, in comparison with other British West African Colonies, in its freedom from plague, but if the reservoir of human typhus is present in the rat population then it becomes obvious that the special rodent investigation, which has been going on during the past two years, requires not only to be continued but to have its scope increased."
- satisfactory in spite of the fact that the invaliding rate per average number of officials resident was 11.03 (the highest for ten years). There were no official deaths. Of the 16 officials invalided, 8 or 50 per cent. can be directly attributed to Tropical disease and its results. The number of days lost through malaria per 1,000 residents is high, being 459.

TABLE I.

HEALTH OF EUROPEAN OFFICIALS.

Table showing Sick, Invaliding and Death-rates of European Officials.

		1934.	1935.	1936.
		200	207	011
Total number of officials resident		208	207	211
Average number resident		144	145	145
Total number on sick list		143	149	147
Total number of days on sick list		1,231	1,696	1,624
1 1 1 1 1 1 1 1 1 1 1 1 1		3.37	4.64	4.43
Percentage of daily sick to average number reside	nt	2.34	3.2	3.05
Average number of days on sick list to each patien		8.60	11.38	11.04
Average sick time to each resident		8.54	11.69	11.20
m i i i i i i i i i i i i i i i i i i i		9	7	16
D c 1:1: while tell self-out	• • • •	4.32	3:38	7:58
1)	• • • • • • • • • • • • • • • • • • • •	6.25	4.82	11.03
			3	
	• • •		1.44	
2 Clocking of the control of the con	• • •		2.06	
Percentage of deaths to average number resident	• • •		200	
v				

	Causes	s.			Invalided.	Died.
				,		·
ver er					1	
* * *					Ī	
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				• • •	1	_
					1	_
			* * 1		1	
lulitis of a	unı		• • •		1	-
ieral neur	itis				1	
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					1	b / Aprillation Anni
		0 0 0			1	_
					1	
ınia					1	_
earditis					1	
• • •	• • •	* > *	• • •	• • •	1	
Total	• • •	• • •	•••	• a •	16	- Military Management of the contraction of the con
	lulitis of a reral neur	dulitis of arm neral neuritis	dulitis of arm ieral neuritis imia earditis	dulitis of arm	dulitis of arm	rer

17. The invaliding rate of European officials for the past ten years is shown below.

	Year		Average Number Resident.	Total Number of Invalidings.	Percentage of Invalidings to Average Resident.		
1927			250	16	6.40		
1928			280	9	3.21		
1929			251	11	4:38		
1930			260	3	1.15		
1931			177	8	4.51		
1932			176	6	3.40		
1933			153	7	4.51		
1934			144	9	6.25		
935			145	7	4.82		
1936	• • •		145	16	11.03		

12. There has been a slight decrease in the total number of non-officials resident and a larger decrease in the average number resident. It cannot be said that the health of the non-officials has been as satisfactory as in 1935. Four deaths occurred, one more than in 1935, and 21 non-officials were invalided which is the highest for three years. Of the four deaths only one can be directly attributed to Tropical diseases, and 10 of the 21 persons invalided.

TABLE II.

HEALTH OF EUROPEAN NON-OFFICIALS.

Table showing Sick, Invalidings and Death-rates of European Non-Officials.

		1934.	1935.	1936.
Total number of non-officials resident	• • •	445	511	504
Average number resident		306	399	356
Total number on sick list		87	64	95
Percentage of sick to average number resident	.,.	28.43	16.04	26.68
Average number of days on sick list to each patient				
Average sick time to each resident		-		
Total number invalided		13	7	21
Percentage of invalidings to total resident		2.94	1.37	4-16
Percentage of invalidings to average number resident		4.24		
	• •	41.24	1.75	5.89
Total deaths			3	4
Percentage of deaths to total resident	• • • 1		.58	.79
Percentage of deaths to average number resident			.75	1.12
	and the state of		, , ,	~

Causes of Invalidings and Deaths of European non-officials.

	Causes				Invalided.	Died.
General injuries					1	
Anæmia and worms	• • •	* * *	* * *	* * *	1	
Appendicitis			•••	• • •	1	1
T) 111				• • •	<u>I</u> 1	1
Blackwater fever	• • •	• • •			Ţ	
	• • •	•••	• • •	• • •		1 ~
Carcinoma		•••	• • •			1
Dysentery	***	• • •	• • •	• • • •	3	
Erysipelas			• • •	• • •	1	
Gastric malaria			• • •		1	
Heart disease				• • • .	1	
Hydrocele					1	_
Leg injury					1	
Collapse of left lung					1	
Nervous breakdown					4	
Phlebitis					1	
Pneumonia		• • •	• • •			1
Prostate complication		• • •	•••		1	
Typhoid				•••	1	
Not amenable to clim			***	•••	1	
Tion anionation to thin.		* * *	• • •	* * *	1	
Total	•••		•••		21	4

13. African Officials.—In spite of the fact that the total number of African officials shows a large increase the total number of days spent on the sick list shows a very welcome decrease of 1,393 days. The death-rate and the invaliding rate show a decrease. It is interesting to note that of the two deaths neither of them was directly attributed to Tropical diseases and only one of the eleven officials invalided. The health of the African officials can, therefore, be considered as satisfactory.

TABLE III.

HEALTH OF AFRICAN OFFICIALS.

Tables showing Sick, Invalidings and Death-rates of African Officials.

	1934.	1935.	1936.
Total number of officials resident	930	928	960
Average number resident	920	908	930
Total number on sick list	530	497	442
Total number of days on sick list	6,536	7,222	5,829
Average daily number on sick list	17.90	19.78	15.92
Percentage of daily sick to average number resident	1.94	2.17	1.71
Average number of days on sick list to each patient	12.33	14.53	13.18
Average sick time to each resident	7.10	7.95	6.26
Total number invalided	7	11	11
Percentage of invalidings to total resident	.75	1.18	1.14
Percentage of invalidings to average number resident	.76	1.21	1.18
Total deaths	7	7	2
Percentage of deaths to total resident	.75	.75	.2
Percentage of deaths to average number resident	.76	.77	.21

Causes of Invalidings and Deaths of African Officials.

General County poly, purples on All Street Co. P. J. March 2 and Street	Ċ	auses.			Invalided.	Died.
Defective vision foll	owing ex	xacerba	tion of Iritis	 	1	
Enlarged heart and	myocard	ial deg	ene r ation —	 	1	
Enlarged heart and f	failure o	comp	ensation	 	1	
Glancoma			• • •	 	1	
Hyperpiesis and my	ocarditis			 	1	
Hyperpiesis and gen	eral deb	ility		 	1	
Leprosy			* * *	 	1 .	-
Myocarditis	• • •			 • • •	1	
Neoplasm-left thor	ax	• • •		 	1	
Nephritis and V.D.H	[.		* * *	 	1	
Pneumonia			• • •	 		2
Severe secondary an	æmia au	d gene	ral debility	 	1	-
Total	• • •	• • •	* * *	 	11	2

Percentage of Deaths to Average Number. 67.0 22.0 0.45 0.40 0.85 0.9299.0.21 0.790.61THE COMPARATIVE FIGURES OF THE HEALTH OF AFRICAN OFFICIALS FOR THE LAST TEN YEARS. Total Deaths. 4 10 [<u>~</u> ~ 9 10 6 ∞ <u>~</u> + Percentage of Invalidings to Average Number. 0.15 1:18 1.05 0.45 2.00 2.38 0.83 1.23 1:21 1.24Number Invalided. 10 1 11 12 [~ 20 25 ∞ \Box 4 Average Sick Time to each Official. 7.10 26.2 6.266.10 7.72 9.336.20 89.9 7.91 8.5 Number of Days off Duty through Sickness. 6,415 7,415 7,919 9,052 7,863 6,347 6,536 7,222 5,829 5,464 Number on Sick List. 1,048 442 959 680 530 933 861 497 196 1,057 TABLE SHOWING Average Number of Officials. 1,000 950 930 1,050 696 970 884 880 920 808 1930 1933 1935 1932 1936 1927 1928 1929 1931 1934 Year.

TABLE IV.

HEALTH OF AFRICAN TROOPS.

14. The health of the African Troops has been satisfactory. One death has been reported as against uil in 1935. The number of men on the sick list shows a decrease of 91, and the sick rate per 1000 a decrease of 213.

Royal West African Frontier Force (Non-European).

Average Strength of Battalion in 1936.	erage Strength of attalion in 1936. Total Number of Deaths.		Total Number of Men on Sick List.	Sick Rate per 1,000.	
369	1	2.71	275	745	

TABLE V.

HEALTH OF AFRICAN POLICE.

15. The total strength of the Force shows an increase of one. There have been 4 deaths as against one in 1935. The total number of men on the sick list and the sick rate per 1000 show a decrease. The health of the African Police can be considered satisfactory.

Total Number of Men.			Total Number of Men on Sick List.	Sick Rate per 1,000.	
266	4	15.03	174	654	

TABLE VI.

HEALTH OF PRISONERS AND MENTAL PATIENTS.

- 16. A special report on these is found in Section III—Prisons and Asylums.
- 17. It would not be out of place to mention, at this juncture, the visit of Dr. Cunyngham Brown, c.B.E., who was sent out by the Colonial Office to investigate the question of lunacy in the West African Colonies. Dr. Cunyngham Brown expressed himself as satisfied as to there being no conditions which called for immediate remedy in this Colony, but, at the same time, put forward certain suggestions as to future improvements. Dr. Cunyngham Brown undertook an extensive tour of inspection in the Protectorate and expressed satisfaction at the family care of the mentally deficient.

TABLE VII.

INSTITUTIONAL TREATMENT.

- 18. There has, once more, been an increase in the number of patients attending the various hospitals both in in-patients and out-patients.
- 19. Subsequent attendances also show a very large increase. The total number of deaths recorded show a decrease of 7. Registration is being gradually improved and these figures tend to become more reliable each year.

					1934.	1935.	1936.
N-PATIENTS:							
Funoncen	Colony Protectorate		* * *	• • •	103	143	186
European	l Protectorate		• • •	• • •	0 500	0.055	0.097
African	Colony Protectorate			• • •	3,500	3,655	3,837
		• • •			1,676	1.814	1,757
OUT-PATIENTS					250	105	338
Euronean	Colony Protectorate		• • •		350	185	
European	(Protectorate	• • •	• • •	• • •	115	175	137
African	Colony Protectorate	• • •		• • •	48,436	48,486	52,710
Airican	Protectorate			• • •	47,418	49,058	57,804
	Total	• • •	•••		101,598	103,516	116,770
EATHS:					,		
	Colony					4	2
European	Colony Protectorate	• • •				1	
A C	Colony	• • •	• • •		256	277	255
Airican	Colony Prote c torate				78	102	120
	Total	4 9 0			334	384	377
Percentage of (leaths to total nur	nber treat	ed		•32	37	•32
Showing deer	ease or increase	of total	number				
patients trea		•••			+3,950	+1,919	+13,348
					339,845	362,119	381,158

The following table gives the numbers of diseases for which patients attended the various hospitals and dispensaries. Several diseases such as yaws, chronic rheumatism, acute bronchitis, dental caries, constipation and venereal diseases show an increase. Avitaminosis, on the other hand, shows a decrease.

						1 9	1935.	1936.
· ·		-			• • •	1	7,718	7,942
falaria Yaws	• • •	• • •					6,539	8,202
í aws Loute rheumat		• • •						2
toute rheumat Thronic rheum			• • •	* * *			7,642	10,671
		• • •		* * *			110	137
Hemiplegia		• • •	* * *				903	1,075
Conjunctivitis Affection of th	0.000		* * *				940	1,149
Hæmorrhoids		• • •	• • •	• • •	* * *		96	102
	(huha non	· «posifia)	* * *	• • •	• • •		620	664
ymphadenitis				• • •	• • •	• • •	1,100	1,146
Joryza			* * *	• • •	* * *		6,905	7,342
Acute bronchit		* * *	* * *				5,301	5,542
Chronic bronch		* * *	• • •	* * *	• • •	• • • 1	202	245
Asthma		* * *	• • •	• • •	• • •		1,627	1,916
aries, pyorrho		• • •		• • •	* * *	• • •	44()	502
łastritis		* * *	• • •	• • •	• • •		3,827	4.420
)yspepsia		• • •		• • •	• • •		1,434	1,716
Diarrhœa and		• • •	• •	• • •		• • •	172	405
nkylostomias	1S	• • •		• • •			924	1,104
Iernia	• • •		• • •	• • •		1 * *	8,334	9,701
Constipation			• • •	• • •	• • •	• • •	82	105
cute nephriti		• • •	. • •	• • •	• • •	• • •	o.≈ 65	98
chistosomiasis					• • •	• • •		
pididymitis -		• • •	• • •	• • •	• • •	• • •	40	70
rchitis		• • •		• • •	• • •		237	249
fydrocele				• • •	• • •	* * *	262	380
bscess	• • •	• • •	• • •	• • •	• • •	• • •	500	774
cabies		• • •		• • •	• • •		1,296	1,742
czema							230	327
steitis						• • •	274	355
rthritis							1,624	1,806
younds by cut	ting or sta	bbing		• • •			745	1,205
racture			• • •		• • •		218	238
ther external	injuries	• • •		• • •			5,132	4,639
sthenia	• • •	• • •		* * *			951	895
yphilis	• • •	• • •		• . •			566	769
onorrhæa	• • •			• • •			2,526	2,755
vitaminosis	,						1,311	969

(ii) Communicable Diseases.

22. The following table shows the relative position of malaria as a cause of lost time in Europeans during the last five years:—

Year.	Average	Total	Total Days	Total Days	Percentage of	Number of Days lost
	Number	Siek.	spent on Sick	spent on Sick List	Malaria Days	through Malaria for
	Resident.	Days.	List for Malaria.	for other Causes.	to Total Days.	year per 100 Residents.
1932	176	1,235	370	$\begin{array}{c} 865 \\ 1,792 \\ 636 \\ 1,128 \\ 958 \end{array}$	29·95	210
1933	153	1,564	372		23·78	243
1934	144	1,231	595		48·33	413
1935	145	1,696	568		33·49	391
1936	145	1,624	666		41·00	459

Hygiene and Sanitation. A further method against malaria are detailed in Section IV—Hygiene and Sanitation. A further method against the ravages of malaria was inaugurated during the year. This method consisted of the distribution of tablets of quinine so that the inhabitants of the Protectorate could purchase quinine without having to proceed to the nearest dispensary or store. This quinine has been on sale at all Post Offices throughout the Colony and Protectorate and has also been distributed by the Political Officers when they have been touring the more remote parts of their districts. The quinine is sold at 3d. per tube of 16 x 2 grain tablets. This procedure has been much appreciated and, after the initial rush, in which the stocks were sold out in three weeks, a steady sale has been maintained. By this method quinine is brought within the reach of everybody. There were seven deaths from Blackwater Fever, one in an European mission lady, and six in Syrians, in the Protectorate. 129 Europeans were treated for malaria during the year compared with 156 in the previous year, a decrease of 27.

- 23. In Africans.—There is a small increase in the number of cases of malaria 7,813 as against 7,562 in 1935. Four deaths from malaria have been reported during the year.
 - 24. The following table gives the figures for the past three years:—

		Disease	8.		1934.	1935.	1936.	
Malaria—ter Malaria—qu Aestivo autu Unclassified Cachexia Blackwater	artan ımnal 	cases of mal		 		$ \begin{array}{r} 26 \\ 119 \\ 852 \\ 5,185 \\ 13 \\ 2 \\ \hline 6,197 \end{array} $	83 147 631 6,836 14 7	59 106 811 6,597 258 11 7,942
d.	Total	cases of mai	iaria (air	types)	• • •	0,177	1,710	1,042

- 25. Typhoid Fever.—19 cases of typhoid have been reported during the year with 5 deaths. All these cases have been sporadic and it has not been possible to definitely trace the source of infection.
- 26. Blackwater Fever.—There have been 11 cases with one European death which occurred in a Mission lady in the Karene District, and 6 deaths in Syrians.
- 27. Trypanosomiasis.—Three cases have been reported from the Protectorate during the year. There were no deaths.
- 28. Smallpox.—The epidemic of smallpox is gradually burning itself out. There was a localised outbreak in Freetown due to an imported case. Full details will be found in Section IV, sub-section B.
- 29. Dysentery.—A further increase in this disease is recorded, namely, 575 cases as against 480 in 1935. Amongst Europeans there were 11 cases with no deaths. In Africans there were 564 cases with 7 deaths.
- 30. Tuberculosis.—No cases have been reported amongst Europeans. In Africans 273 cases with 25 deaths have been reported as against 172 cases with 16 deaths. As stated in the 1935 report these figures should be accepted with considerable reserve.
 - 31. Leprosy.—195 new cases have been reported as against 245 in 1935.
- 32. During the year Dr. E. Muir, Medical Secretary to the British Empire Leprosy Relief Association, visited the Colony and undertook a tour of inspection. Dr. Muir put forward several suggestions which are being embodied in the Leper Settlements which are now under consideration. Several Paramount Chiefs have expressed their willingness to assist in the erection of these settlements and two are being proceeded with at once.
 - 33. Guinea Worm.—No cases of guinea worm have been reported.
 - 34. Relapsing Fever.—No cases of relapsing fever have been reported.
- 35. Yaws.—There has been an increase of 1,663 in the number of cases treated. This increase is, probably, accounted for by the increase in the facilities for treatment.
- 36. Venereal Diseases.—There has been a slight increase in the number of cases both of syphilis and gonorrhæa. It is considered that the increase in shipping and the greater fluctuation of population is, probably, the main cause of the increase.

Diseases.	1932.	1933	1934.	1935.	1936.	
Gonorrhœa Syphilis Total	2,114 388 	$ \begin{array}{c c} 2,236 \\ 616 \\ \hline 2,852 \end{array} $	$ \begin{array}{r} 2,234 \\ 476 \\ \hline 2,710 \end{array} $	$ \begin{array}{r} 2,526 \\ 566 \\ \hline 3,092 \end{array} $	2,756 769 3,525	

- 37. Beriberi.—Ten cases and 2 deaths have been reported from the Protectorate. All these cases were widely separated and there was no epidemic.
- 38. Avitaminosis.—A decrease of 342 is recorded. This decrease is due to the increased prosperity of the people and a better standard of living.
- 39. This disease was discussed with Dr. A. Clark and Dr. E. J. Wright who had been investigating the cyanogenetic properties of the various species of yams. The outcome of this discussion being an attack on the careless preparation of cassada for human consumption. The danger of careless preparation of cassada was pointed out by means of pamphlets and broadcast talks and the people urged to take every precaution so as to exclude the cyanogenetic property of the tuber.

- 40. Rabies.—There were no human cases of rabies during the year. 99 persons received anti-rabic treatment, the majority of these being amongst labourers employed as dog catchers. The restrictions imposed under section 3 of the Animals' Diseases Ordinance, 1924 (Cap. 7 of the Laws of the Colony), were in torce during the whole year.
- 41. Plague.—No cases have been reported during the year. The total number of rats trapped during 1936 was 6,892. Of these, 4,644 were dissected and examined for plague with negative results. 712 live rats were examined for ecto-parasites and 2,133 fleas were obtained of which 83.5 per cent. were X.brasiliensis and 16.5 per cent. X.cheopis. The flea rate being 3 per rat.
 - 42. Cerebro-spinal Meningitis.—No cases have been reported during the year.
- 43. Cancer.—Three cases have been reported amongst Europeans with one death. The fatal case was that of an American sailor who was landed at Freetown in extremis and died shortly after admission. In Africans there were 42 cases with 6 deaths. Only those cases actually diagnosed histologically are shown as cancer.
- 44. Yellow Fever.—One case of yellow fever has been reported during 1936. This case occurred in a soldier of the Sierra Leone Battalion, Royal West African Frontier The patient had been on leave in a village called Baiama, Force, stationed at Daru. roughly, 45 miles from Daru. The patient recovered and his blood was sent to Lagos for the protection test. The result was positive. About this time a suspected case had been reported from Macenta in French Guinea, just across the border, and the Paramount Chief of Kailahun reported that there were many cases of jaundice at Kisi Dougou in French Guinea. All precautions were taken and an intensive inspection of the surrounding villages undertaken. All the blood specimens taken in Baiama itself were negative to the protection test, but at Yengema, the headquarters of the Sierra Leone Selection Trust, Limited, and Koidu, another small village close to one of the main diamond deposits situated, roughly, 30 miles north of Baiama, several blood specimens gave a positive reaction. At Yengema, 42.8 per cent. were positive, and at Koidu 55.5 per cent. These specimens were taken from children under ten years so it is reasonable to presume that there has been an epidemic in this district in recent years.

(b) VITAL STATISTICS.

GENERAL POPULATION.

REPORT OF THE CHIEF REGISTRAR OF BIRTHS AND DEATHS. GENERAL.

45. The table hereunder shows the administrative and executive staffs of the births and deaths registration. Registration machinery now covers the whole Colony and thirty-one stations in the Protectorate.

The present staff consists of:-

Chief Registrar
Deputy Chief Registrar
The Chief Registrar's Clerk

Stationed in Freetown.

Registrars stationed at

Protectorate. Colony. Pujehun Freetown Shebar Regent Wilberforce Moyamba Бо Kissy Tassoh Island Daru Murray Town Makeni Wellington Port Loko Panguma Hastings Hamilton Sefadu Sussex Kent Waterloo Russell York Makomba Songo Town Banana Island (Sherbro Judicial District

Deputy Registrars stationed at Freetown Cline Town Pujehun, Sulima, Potoru, Sumbuya, Mattru, Moyamba, Sembehun, Bauya, Mabang, Mano, Bo, Kenema, Segbwema, Daru, Bandajuma, Pendembu, Kailahun, Kabala, Makeni, Port Loko, Batkanu and Kambia

- 46. The appointment of Chief Registrar is held ex officio by the Assistant Director of Medical Services (Health), and that of the Deputy Chief Registrar by the Medical Officer (Health) ex officio. Registrars, 27 in number, are appointed by the Governor and are chosen from the Medical Officers or from educated citizens in non-medical stations. Deputy Registrars posts, 23 in number, are filled by dispensers or educated citizens. No new registries were opened during the year.
- 47. The system of registration remains the same as in former years and is quoted merely for easy reference:—
 - (a) It is compulsory in the case of all non-natives born or dying in the Protectorate. The term non-natives is meant to cover Europeans, Asiatics, etc., and Colonyborn Africans.
 - (b) It may be made compulsory in any chiefdom or part of a chiefdom, in respect. of all natives born or dying in such chiefdom or part of a chiefdom, but only when a request to Government has been made by the Paramount Chief concerned.
 - (c) Notwithstanding the above provisions, any native in the Protectorate say, if he so wishes, may give information of a person born or dying in the Protectorate, i.e. Permissive Registration.

As previously stated, the present organisation covers the whole of the Colony, though it must still be pointed out that the figures obtained cannot be taken as a true indication of the morbidity of the people. Only in Freetown do the figures approximately disclose the true conditions, owing to the rigid control of cemeteries and the detection of live-births by Sanitary Inspectors and Health Visitors in the course of their daily duties.

48. In the Pujehun District of the Protectorate good results have been obtained, but where Permissive Registration only is in force, only time and education can change the present lack of interest.

POPULATION.

49. The 1931 Census gave the following figures:—

Comparative populations of Freetown, Colony and Protectorate, 1931.

	Males.	Females.	Persons.
Whole Colony Freetown (including Cline Town) Colony (excluding Freetown and Cline	52,552 30,011	43,870 25,347	$96,422 \\ 55,358$
Town)	22,541	18,523	41,064
Protectorate Natives Non-natives	796,392 793,877 2,515	875,666 873,913 1,753	1,672,058 1,667,790 4,268

- 50. It has been possible to estimate a crude increase of population in the case of Freetown only; the 1936 mid-year population is estimated at 62,314 and the rates quoted in the various tables following are calculated on this figure.
 - 51. No Legislation affecting Registration was enacted during the year.

REGISTRATION IN FREETOWN.

52. Births.—The number of births registered shows a small increase over those for 1935, while the rate per 1,000 also shows a very slight increase even when calculated on the estimated mid-year population for 1936, viz., 62,314.

A table comprising the figures and rates for the past three years is given below:-

	Year.			Births.	Rate per 1,000 Population		
			Males.	Females.	Total.	zwee per 1,000 r oparation.	
1934 1935 1936		•••	690 707 766	649 651 671	1,339 1,358 1,437	22·4 22·9 23·0	

53. Deaths.—The number of deaths recorded in 1936 shows a small decrease from the figure for 1935, and the rate per 1,000 calculated on the estimated mid-year population is again slightly lower.

54. A table comprising the figures and rates per 1,000 is given below:—

			Deaths.					
	Males.	Females.	Total.	Rate per 1,000 Population				
• • •	774 740	587 635	1,361 1,375	22·8 22·5 20·8				
		740	740 635	740 635 1,375				

The continued gradual increase in the birth rate coupled with the continued fall in the death rate is gratifying.

- 55. The number of deaths registered under Medical Certificates was 43.5%, an increase of 5% compared with an increase in 1935 of 2%.
- 56. As in former years all cases of non-certified deaths were investigated by the Medical Officer (Health) and his officer prior to registration. Though carried out primarily in the interests of Public Health these investigations and the information elicited do enable a provisional diagnosis to be made, and though far from ideal it is all that can be equitably achieved until by the slow process of evolution the populace has learned the value of skilled medical aid.
- 57. The Table "J" below gives a list of those diseases which are shown as the main causes of death. 1936 was a much drier year than 1935 and both respiratory diseases and malaria show decreases. A general list of the causes of deaths is given in Table "M."
- 58. Infantile and Child Mortality.—The rate for 1936 again showed a decrease, being 210 as compared with 227 for 1935. As in former years the greatest incidence of mortality fell within the first three months of birth by which time 74.5% of all deaths under one year had taken place, an increase of 6.7% in this period.
- 59. The figure 210 per 1,000 appears high when compared with rates obtaining in more organised communities situated in temperate climates, but it is the lowest ever recorded in this Colony and low when compared with rates for former years when ante-natal and child welfare work did not exist. The utilisation of these now well organised services leads one to expect a gradual reduction through the succeeding years.
- The accompanying Tables "C", "D" and "E" show in comparative form the births, deaths and infantile mortality rates for the whole Colony, Freetown, and the Colony excluding Freetown respectively, while from Table "F" which shows the infantile mortality rate for Freetown for certain age periods it will be seen that 33.84% of all children born failed to survive the first five years, and that of these deaths the first year took a total of 23.23%. The rate for deaths under one year shows an increase of 1.76%.
- 61. Table "G" shows the principal causes of deaths in infants under one year. When compared with a similar table for 1935 it will be seen that deaths from convulsions were markedly less, while malaria claimed 31 and unknown causes 58.
- 62. Maternal Mortality.—It is satisfactory to be able to record a further decrease in these maternal mortality figures. Notwithstanding the greater number of total births the number of fatal results to parturient women fell from 16 to 14 and the rate per 1,000 live-births fell from 11.78 to 9.7.

REGISTRATION IN THE COLONY.

- 63. As explained in the general remarks no reliance can be placed on the figures obtained from the registration districts outside Freetown. At the best they represent but a proportion of the births and deaths taking place and cannot be used for the compilation of any accurate figures. The machinery exists but only time and custom will induce the African to register, and this object is better obtained by persuasion than coercion.
- 64. The figures of births, deaths, and infantile mortality rates for the Colony excluding Freetown are shown in Table "E".

REGISTRATION IN THE PROTECTORATE.

- 65. During the year it was not found possible to extend the scope of the organisation to embrace more Protectorate towns, but it will be seen from Table "B" that something has been achieved by the stations opened in December, 1935. A large increase is to be noted from the Pujehun District of the Southern Province.
- 66. As in former years, merely the total numbers of births and deaths registered are given, and these totals represent but a small fraction of the true number.

TABLE A.

Births and Deaths recorded at all Registration Districts in the Colony—1936.

DISTRICTS.]	BIRTHS		D	EATHS.		DEATHS UNDER TWELVE MONTHS.			
		Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.
Freetown and Clinetown	• • •	766	671	1,437	728	569	1,997	177	126	303
Wilberforce	• • •	47	40	87	42	47	89	12	16	28
Murray Town	• • •	15	13	28	17	18	35	6	4	10
Regent		22	21	43	25	25	50	7	7	14
Kissy		28	24	52	92	78	170	13	14	27
Wellington		50	34	84	39	31	70	10	14	24
Hastings		49	49	98	52	39	91	14	18	32
Waterloo		30	41	71	30	31	61	4	5	9
Makomba		95	73	168	72	44	116	14	12	26
Songo Town		67	65	132	68	40	108	10	5	15
Russell		42	24	66	66	45	111	12	5	17
Kent		10	9	19	8	7	15	3	1	4
Bananas Island	• • •	5	2	7	10	6	16		1	1
York		18	19	37	16	15	31	7	3	10
Sussex		1.0	11	21	8	9	17	3	4	7
Hamilton		21	19	40	27	17	44	8	3	11
Tassoh Island		45	47	92	34	26	60	17	11	28
Sherbro Judicial	• • •	26	29	55	63	46	109	12	6	18
Total	• • •	1,346	1,191	2,537	1,397	1,093	2,490	329	255	584

TABLE B.

Births and Deaths recorded at all Registration Districts in the Protectorate—1936.

DIST	'RICTS.			BIRTHS	S		DEATHS	S.	DE TWE	ATHS UNI	DER NTHS.
			Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.
Northeri	r Provinc	e.									
Port Loko	• • •		7	7	14	33	34	67	4	5	9
Kambia	• • •		7	6	13	23	12	35	3	4	7
Batkanu			17	13	30	12	20	32	3	7	10
Makeni	• • 1		8	6	14	9	3	12	_	i	1
Kabala	• • •		4	6	10	6	6	12	1	î	$\frac{1}{2}$
								1.7		*	4
Southern	i Province	e.								}	
Mabang	• • •		8	10	18	18	7	25	4		4
Bauya			5	3	8	4	4	8		1	î
Moyamba	• • •		24	33	57	8	6	14		3	3
Sembehun						1	5	6	-		
Mano	• • •		2	1	3	3		3			
Во			10	9	19	$2\overline{2}$	12	34	3	1	4
Sumbuya			1		1	19	9	28			_
Kenema		• • •	6	10	16	13	19	32	4	5	9
Panguma			11	13	24	35	28	63	3		3
Koidu	• • •	• • •	7	3	10	5		5			
*Bandajuma											
Segbwema			1	·	1						
Daru			3	8	11	19	7	26	2	3	5
Pendembu		• • •	$\frac{0}{12}$	10	$\frac{1}{22}$	16	10	26	6	2	8
Kailahun			6	6	12	16	10	26	1	1	2
Pujehnn	• • •		755	817	1,572	37	23	60	9	4	13
Potoru			123	117	240	63	57	120	27	21	48
Sulima			113	131	244	8	1	9	2	21	2
Matru			51	60	111	45	45	90	10	5	15
Shebar	• • •	• • •	1	$\frac{30}{2}$	3	_	-		_	_	_
To	tal	•••	1,182	1,271	2,453	415	318	733	82	64	146

^{*}Registrar not available.

TABLE C.

Births. Deaths and Infant Mortality Rates for the whole Colony of Sierra Leone (including Freetown), for the last five years.

Population.	birtns Registered.	per 1,000 Population.	Deaths Registered.	per 1,000 Population.	under Twelve Months.	per 1,000 Live Births.
97,921 99,239 100,587 101,967 103,378	2,439 2,326 2,273 2,389	22 22 24 44 44 56 56 56 56 56 56 56 56 56 56 56 56 56	2,404 2,205 2,384 2,424 2,490	24.5 22.2 23.7 23.7 24.0	567 540 530 552 584	8 61 62 63 63 63 63 63 63 76 62 63 63 76 63 63 63
	Births, Dea	TABLE D. Births, Deaths and Infant Mortality Rates, Freetown, 1932–1936.	E D. lity Rates, Freetown	i, 1932–1936.		
56.857	1,276	29.4	1,400	24.6	348	27.2
59,523	1,339 1,339	23.6 22.4	1,361	22.2 22.8	312	N N N N N N N N N N N N N N N N N N N
60,903 62,314	1,358	22·9 23·0	1,375	22.5 20.8	308 303	227

TABLE E.

Births, Deaths and Infant Mortality Rates, Colony (excluding Freetown), for the last five years,

198	235	233	236	255
219	223	218	244	281
24.4	23.7	24.9	25.5	29.0
1,004	926	1,023	1,049	1,193
28:3	23.0	22.7	25.0	26.7
1,163	948	934	1,031	1,100
41,064	41,064	41,064	41,064	41,064
1932	1933	1934	1935	1936

TABLE F. Number of deaths in certain periods under one year and during the next four years of age, Freetown, 1936.

			No. of Deaths.	Percentage of Deaths under One Year.	Death-rate per 1,000 Live Births.
Under 04 haven		1			
Under 24 hours	• • •	• • •	49	16.1	34.0
1-7 days	• • •		93	30.6	64.6
1–2 weeks	• • •		41	13.5	28.5
Total under 2 weeks*			183	60.3	$1\overline{27\cdot3}$
2–4 weeks			18	5.9	12.5
Total under 1 month			201	66.3	139.8
1–3 months			25	8.2	17.3
Total under 3 months			226	74.5	157.2
3–6 months			34	11.2	23.6
6–9 months			$\frac{31}{22}$	$7\cdot 2$	
9–12 months			21	6.9	15.3
Total under 1 year		***			14.6
Total ander i year	• • •	• • •	303	100	210.8

		No. of Deaths.	Percentage of Total Deaths.	†Death-rate per 1,000 Living at all Ages.
0-1 year 1-2 years 2-3 ,, 3-4 ,, 4-5 ,,		303 65 39 19	23·3 5·0 3·0 1·4 1·0	4·8 1·0 ·6 ·3 ·2
Total 1-5 years	• • •	136	10.4	2.8
Total 0-5 years		439	33.8	7.0
Deaths at all ages		1,297		20.8

^{*}This represents the period within which births must be registered.
†The death-rate per 1,000 living at each age is not available because of the unusual age grouping adopted in the Census Report.

TABLE G.

Causes of Deaths under Twelve Months.

Freetown, 1936.

TABLE H.

Maternal Deaths associated with Pregnancy and Child-bearing, Freetown, 1936.

Interna- tional List	Causes of Death.		Numb	er of Death	18.	Maternal Mortality Rates
Number.	Oduses of Death.		Certified.	Uncertified.	Total.	per 1,000 Live Births.
142 149 149 150 : 3 150 : 3 141 : 2 145a 144b 146 : 1 147	Extra-Uterine Pregnancy Difficult labour Contracted pelvis Child-birth Parturition (unqualified) Incomplete abortion Puerperal sepsis Post-partum hæmorrhage Eclampsia (unqualified) Toxæmia of pregnancy		1 1 1 - 1 1 1 1 3	1 3	1 1 1 3 1 1 1 1 3	:—Other unspecified conditions of pregnancy=4.8 :—Puerperal sepsis=1.3 :—Puerperal hæmorage=6 :—Puerperal albuminuria =2.7
	Total	•••	10	4	14	

The maternal mortality rate was 9.7 per 1,000 Live Births (8.9 per 1,000 total births).

TABLE I.

Deaths at various Ages up to Twelve Months with Percentages of Total Deaths
under Twelve Months, Freetown, 1935 and 1936.

	Numbei	R OF DEAT	IIS AT AGE	es and Pe	RCENTAGES	OF TOTA	L DEATHS	UNDER T	WELVE M	ONTHS.
Year.	Under 24 Hours	24 Hours to 2 Weeks.	Total under 2 Weeks.	2-4 Weeks.	Total under 1 Month.	1-3 Months.	Total under 3 Months.	3-6 Months.	6-12 Months.	Total under 12 Months.
1935.					176 or 57·1 per cent.					308
1936.					201 or 66:3 per cent.					303

TABLE J.

Principal Causes of Deaths, Freetown (including Cline Town), 1936.

			No.	Proportion per 1,000 Deaths. from all Causes.	Certified.
Bronchitis and pneumon Malaria Pulmonary Tuberculos Diarrhœa and Dysente Senility Valvular disease Prematurity Nephritis Strangulated Hernia Cerebral hæmorrhage Convulsions Hemiplegia	is	 	213 152 88 72 62 43 36 36 27 23 10 9	164 117 68 56 45 33 27 27 27 21 17 7	52 18 25 12 11 10 7 25 8 9 10 3

The number of deaths registered on Medical Certificates was 382, comprising 29.4 per cent. of the deaths registered.

TABLE K.

Death Certificates, Freetown and Kissy, 1935 and 1936.

YEAR.		Europeau Hospital.	Connaught Hospital.	P. C. M. Hospital.	Kissy Institution.	Private Practitioners.
1935	• • •	4	251	25	79	161
1936	• • •	1	198	13	89	293

TABLE L.

Mortality according to Age and Sex.—Freetown, 1936.

		Under 24 hours.	24 hours to 1 year.	1-5 years.	5-15 years.	15-25 years.	25-45 years.	45-65 years.	65 years and over.	
Males	* * *	25	152	70	30	40	187	150	77	731
Females	• • •	24	102	66	38	22	95	104	115	566
Persons	•••	49	254	136	68	62	282	254	192	1,297

TABLE M.

Causes of Death—Freetown (including Cline Town), 1936.

Internatio List Num		Cause.		No.	Certified.
1		Typhoid fever		4	4
$\hat{6}$	• • •	Smallpox	• • • 1	1	T
9		Cough	• • •	1	
13		Dysentery	• • •	32	
13a		Amœbic dysentery	• • •	9	2
L3b	• • •	Bacillary dysentery	• • •	1	$\tilde{1}$
22	• • •	Tetanus	•••	$1\overline{5}$	6
22	• • •	Tetanus neonatorum	• • •	24	5
23		Tuberculous brone	olio-	ÆŒ	9
3 5	• • •	penumonia		1	1
23		Tuberculous of lungs	• • •	1	1
23	• • •	Pulmonary tuberculons		81	20
23		Phthisis	•••	6	4
23	• • •	Phthisis pulmonalis	• • •	1	1
25		Tuberculous enteritis	• • •	1	1
25	* * *	Tabes mesenterica	• • •	1	1
25 25	• • •		• • •	1	1
		Tuberculous peritonitis	• • •	• 1	
32a 32e	• • •	Miliary tuberculosis	• • •		1
32e 33	• • •	Generalised tuberculosis	• • •	2	$\frac{2}{1}$
	• • •	Leprosy	• • •		
34		Syphilis	• • •	2	$\frac{2}{6}$
36a	• • •	Septicæmia	• • •	23	б
36b	• • •	Pyæmia	• • •	1	
38		Quartan malaria	• • •	1	1
38	• • •	Malaria	• • •	152	13
38		Tertian Malaria	• • •	3	3
38		Malignant tertian		1	1
39		Yaws		3	
10		Ankylostomiasis	• • •	7	_
12		Ascariasis		6	1
12		Ascaris lumbricoides	• • •	1	1
12		Worms		1	
14:6		Blackwater fever]	1
15		Cancer of maxilla		1	1
16		Cancer of colon	• • •	2	2
16		Cancer of rectum		1	$\begin{bmatrix} 1 \\ 2 \\ 1 \end{bmatrix}$
16		Cancer of stomach		2	2
16		Cancer of liver		1	
50		Cancer of the breast		5	2
53		Cancer of neck		1	
53		Cancer (unqualified)		5	5
4a	/	Fibroid uterus		2	2
55a		Tumour of uterus		1	
66		Acute rheumatism		1	1
56		Rheumatism		1	_
57:1	• • •	Chronic rheumatism		18	
59	• • •	Diabetes mellitus	• • •	3	3
51		Beri-beri	• • •	1	1
53:1		Rickets		2	2 3
6d		Tetany	• • •	3	3
59:2		Toxæmia	• • •	1	1
'1b:1		Splenic anæmia	• • •	1	1
3:2	• • •	Rupture of spleen	•••	1	1
73:2	• • •	Splenitis		1	_
73:2		Enlargement of spleen	• • •	1	
73:2		Abscess of spleen	• • •	1	1
75		Acute alcoholism	• • •	1	1
32a	• • •	Cerebral hæmorrhage	• • •	20	8
32a:1		Sub-dural hæmorrhage	• • •	3	1
32b:2		Cerebral thrombosis	•••	2	1
32e : 1	• • •	Hemiplegia		9	3
32e : 2		Paralysis	• • •	3	1
34b		Mania		1	
35	• • •	Epilepsy		3	2
		Infantile convulsions		1	
		Intantile convensions			
86 87b	• • •	Peripheral neuritis	• • •	1 9	1

TABLE M—continued.

Causes of Death—continued.

	-				
Internation List Num	onal iber.	Cause.		No.	Certified.
92:2	• • •	Mitral regurgitation		1	
$92:\overline{2}$		Mitral incompetency	• • •	1	1
92:2	• • •	The Artist of the Control of the Con	• • •	1	1
92:5	• • •			1	$\frac{1}{7}$
93:3	• • •	Valvular disease		40	7
93c	* * *	Cardiac degeneration	* * *	5	3
95b : 2	• • •	Myocarditis		2	1
96	• • •	Cardiac disease	• • •	12	2
96	• • •	Aneurysm		4	4
	• • •	Dilatation of aorta	• • •	1	1
97:1	• • •	Arterio sclerosis	• • •	2	1
98b	•••	Gaugrene of foot	• • •	1	1
101	• • •	Adenitis	• • •	3	_
103	• • •	Internal hæmorrhage	• • •	1	1
105:2	• • •	Oedema glottidis		2	2
106	• • •	Bronchitis		23	1
106a	• • •	Acute bronchitis		22	1
106b	• • •	Chronic bronchitis		14	1
106b	• • •	Bronchiectasis	• • •	1	1
107	• • •	Capillary bronchitis		1	1
107	• • •	Bronchial pneumonia		1	1
107	• • •	Broncho-pneumonia		69	10
108	• • •	Apical pneumonia		1	
108	• • •	Lobar pneumonia		23	17
109		Consolidation of lung		1	1
109		Bilateral pneumonia		1	ī
109		Pneumonia		57	11
109		Double pneumonia		1	î
110:2	• • •	Pleurisy		6	$\hat{2}$
111:1		Hypostatic penumonia		1	ĩ
111:1		Pulmonary congestion		î	î
112		Asthma		î	
112		Bronchial Asthma		$\bar{4}$	2
113		Emphysema		1	$\tilde{1}$
114b:1		Gangrene of the lung		î	î
115:1		Stomatitis		î	
118:1		Gestritis		$\hat{2}$	1
118:2		Dilation of stomach		1	î
118:2		Dyspepsia		3	î
118:2		Hæmatemesis		1	î
118:2		Pernicious vomiting		î	î
119 & 120a	: 2	Infantile diarrhœa		î	
119 & 120a	:2	Intestinal catarrh		$\hat{2}$	$\hat{2}$
119 & 120a	: 2	Diarrhœa		30	$\tilde{6}$
119 & 120a		Intestinal toxaemia			$\overset{\circ}{2}$
119 & 120a		Enteritis		$\begin{bmatrix} 2 \\ 8 \end{bmatrix}$	$\tilde{3}$
119 & 120a	: 2	Gastro-enteritis		3	3
121	• • •	Gangrenous appendicitis			1 2 6 2 3 3 1
121	• • •	Appendicitis		1 3	$\hat{3}$
122a	• • •	Inguinal hernia		2	
122a:1		Strangulated hernia		27	8
122b		Intestinal obstruction		2	$\overset{\circ}{2}$
123:1	• • •	Constipation	• • •	2	
124b	• • •	Cirrhosis of liver		$\begin{bmatrix} 2 \\ 3 \end{bmatrix}$	2
125:2		Hepatic abscess		1	2 1
127:2		Catarrhal jaundice	3.60	1	î
129		Peritonitis		3	$\hat{3}$
129		General peritonitis		3	3 3 2 3
130		Sub-acute nephritis		7	2
130	• • •	Acute nephritis		3	$\tilde{3}$
130		Acute parenchymato	us		
		nephritis	•••	1	1
131		Chronic nephritis		27	$2\overline{5}$
132		Nephritis		9	~·
132		Uræmia		4	3
133b	• • •	Hydronephrosis		i	1
135b		Retention of urine		$\hat{7}$	$\frac{1}{2}$
136a	• • •	Stricture (unqualified)		i	1

TABLE M—continued.

Causes of Death—continued.

36b Extravasation of urine 2 2 2 2 2 2 2 3 3 1	Extravasation of urine Urethral fistula Hypertrophy of prostate Hydrocele Pyosalpingitis Pelvic inflammation Abscess of breast Incomplete abortion Extra-uterine pregnancy Post-partum hæmorrhage Puerperal sepsis Eclampsia (unqualfied) Toxæmia of pregnancy Difficult labour Contracted pelvis Child-birth Parturition (unqualified)	2 . 1 . 2 . 1 . 1 . 1 1 1	1 2 - 2 - 1 1 1 1 1 1 1 1 3
36b Extravasation of urine 2 2 36b Urethral fistula 1	Extravasation of urine Urethral fistula Hypertrophy of prostate Hydrocele Pyosalpingitis Pelvic inflammation Abscess of breast Incomplete abortion Extra-uterine pregnancy Post-partum hæmorrhage Puerperal sepsis Eclampsia (unqualfied) Toxæmia of pregnancy Difficult labour Contracted pelvis Child-birth Parturition (unqualified)	2 . 1 . 2 . 1 . 1 . 1 1 1	2
38	Hypertrophy of prostate Hydrocele Pyosalpingitis Pelvic inflammation Abscess of breast Incomplete abortion Extra-uterine pregnancy Post-partum hæmorrhage Puerperal sepsis Eclampsia (unqualfied) Toxæmia of pregnancy Difficult labour Contracted pelvis Child-birth Parturition (unqualified)	. 2 . 1 . 1 . 1 . 1 . 1 . 1 . 1 . 3 . 1	1 1 1 1 1 1 1
38a Hydrocele 1	Hydrocele Pyosalpingitis Pelvic inflammation Abscess of breast Incomplete abortion Extra-uterine pregnancy Post-partum hæmorrhage Puerperal sepsis Eclampsia (unqualfied) Toxæmia of pregnancy Difficult labour Contracted pelvis Child-birth Parturition (unqualified)	. 1 . 1 . 1 . 1 . 1 . 1 . 1 . 3 . 1	1 1 1 1 1 1 1
39a : 2 Pyosalpingitis 1 1 1 39e : 39e : 39e : 39e : 39e : 48e : 39e : 41e : 2 Pelvic inflammation 1 1 1 39e : 39e : 48e : 39e : 39	Pyosalpingitis Pelvic inflammation Abscess of breast Incomplete abortion Extra-uterine pregnancy Post-partum hæmorrhage Puerperal sepsis Eclampsia (unqualfied) Toxæmia of pregnancy Difficult labour Contracted pelvis Child-birth Parturition (unqualified)	. 1 . 1 . 1 . 1 . 1 . 1 . 1 . 3 . 1	1 1 1 1 1 1
39a : 3 Pelvic inflammation 1 39c Abscess of breast 1 41 : 2 Incomplete abortion 1 42 Extra-uterine pregnancy 1 44b Post-partum hæmorrhage 1 45a Puerperal sepsis 1 47 Toxæmia of pregnancy 3 47 Toxæmia of pregnancy 3 49 Difficult labour 1 49 Contracted pelvis 1 50 : 3 Child-birth 1 50 : 3 Parturition (unqualified) 3 51 Carbuncle 1 52 Osteitis 2 53 Ulcer (unqualified) 4 54 Osteomyelitis 2 55 Osteitis 1 57c Congenital heart disease 1 58 Asthenia 1 58 Asthenia 1 58 Manutrition 1 58 Manutrition 1 <tr< td=""><td>Pelvic inflammation Abscess of breast Incomplete abortion Extra-uterine pregnancy Post-partum hæmorrhage Puerperal sepsis Eclampsia (unqualfied) Toxæmia of pregnancy Difficult labour Contracted pelvis Child-birth Parturition (unqualified)</td><td>. 1 . 1 . 1 . 1 . 1 . 3 . 1</td><td>1 1 1 1 1 1</td></tr<>	Pelvic inflammation Abscess of breast Incomplete abortion Extra-uterine pregnancy Post-partum hæmorrhage Puerperal sepsis Eclampsia (unqualfied) Toxæmia of pregnancy Difficult labour Contracted pelvis Child-birth Parturition (unqualified)	. 1 . 1 . 1 . 1 . 1 . 3 . 1	1 1 1 1 1 1
Abscess of breast	Abscess of breast Incomplete abortion Extra-uterine pregnancy Post-partum hæmorrhage Puerperal sepsis Eclampsia (unqualfied) Toxæmia of pregnancy Difficult labour Contracted pelvis Child-birth Parturition (unqualified)	. 1 . 1 . 1 . 1 . 1 . 3 . 1	1 1 1 1 1 1
1 2	Incomplete abortion Extra-uterine pregnancy Post-partum hæmorrhage Puerperal sepsis Eclampsia (unqualfied) Toxæmia of pregnancy Difficult labour Contracted pelvis Child-birth Parturition (unqualified)	. 1 . 1 . 1 . 1 . 3 . 1	1 1 1 1
42 Extra-uterine pregnancy 1 2 2 2 3 3 2 1 1 1 1 2 3 3 2 1 1 1 3 3 1 2 2 3 3 1 1 1 3 3 1 1 1 1 3 4 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 </td <td>Extra-uterine pregnancy Post-partum hæmorrhage Puerperal sepsis Eclampsia (unqualfied) Toxæmia of pregnancy Difficult labour Contracted pelvis Child-birth Parturition (unqualified)</td> <td>. 1 . 1 . 1 . 3 . 1</td> <td>1 1 1 1</td>	Extra-uterine pregnancy Post-partum hæmorrhage Puerperal sepsis Eclampsia (unqualfied) Toxæmia of pregnancy Difficult labour Contracted pelvis Child-birth Parturition (unqualified)	. 1 . 1 . 1 . 3 . 1	1 1 1 1
44b	Post-partum hæmorrhage Puerperal sepsis Eclampsia (unqualfied) Toxæmia of pregnancy Difficult labour Contracted pelvis Child-birth Parturition (unqualified)	. 1 . 1 . 3 . 1	1 1 1
45a	Puerperal sepsis Eclampsia (unqualfied) Toxæmia of pregnancy Difficult labour Contracted pelvis Child-birth Parturition (unqualified)	. 1 . 3 . 1	1 1
46:1 Eclampsia (unqualfied) 1 47 Toxæmia of pregnancy 3 49 Difficult labour 1 49 Contracted pelvis 1 50:3 Child-birth 1 50:3 Parturition (unqualified) 3 51 Carbuncle 1 53 Ulcer (unqualified) 4 54 Osteomyelitis 2 55 Osteitis 1 58 Asthenia 1 58 Asthenia 1 58 Congenital debility 18 58 Inanition 1 58 Malnutrition 1 58 Marasmus 10 58 Want of vitality 1 59 Prematurity 36 60 Difficult labour 1 60 Dyspocia 3 61a Atalectasis 14 61b Senility 62 84 Accidental injury by fir	Eclampsia (unqualfied) Toxæmia of pregnancy Difficult labour Contracted pelvis Child-birth Parturition (unqualified)	. 1 . 3 . 1 . 1	1
47 Toxæmia of pregnancy 3 3 49 Difficult labour 1 1 49 Contracted pelvis 1 1 50:3 Child-birth 1 50:3 Parturition (unqualified) 3 51 Carbuncle 1 <td< td=""><td>Toxemia of pregnancy Difficult labour Contracted pelvis Child-birth Parturition (unqualified)</td><td>3 . 1</td><td></td></td<>	Toxemia of pregnancy Difficult labour Contracted pelvis Child-birth Parturition (unqualified)	3 . 1	
49 Difficult labour 1 1 1 1 1 1 1 1 50:3 Child-birth 1 1 1 1	Difficult labour Contracted pelvis Child-birth Parturition (unqualified)	. 1	1.1
49 Contracted pelvis 1 1 50:3 Child-birth 1 50:3 Parturition (unqualified) 3 51 Carbuncle 1 1 53 Ulcer (unqualified) 4 2 54 Osteomyelitis 2 2 55 1 57c Congenital heart disease 1 58 Asthenia 1 58 Congenital debility 18 11 58 Mantition 1 1 58 Malnutrition 1 1 58 Marasmus 10 3 58 Want of vitality 1 1	Contracted pelvis Child-birth Parturition (unqualified)	. 1	
50:3 Child-birth 1 50:3 Parturition (unqualified) 3 51 1 1 1 1 1 1 1 1 1 1 1 1 2 3 3 3 1 1 1 1 1 1 1 2 2 2	Child-birth Parturition (unqualified)	1	1
50:3 Parturition (unqualified) 3 — 51 Carbuncle 1 1 53 Ulcer (unqualified) 4 2 54 Osteomyelitis 2 2 55 Osteomyelitis 2 2 55 Osteitis 1 57 Congenital heart disease 1 58 1 1 1 1	Parturition (unqualified)		1
51	(andaminon)	9	
53 Ulcer (unqualified) 4 2 54 Osteomyelitis 2 2 55 Osteitis 1 57c Congenital heart disease 1 58 Asthenia 1 58 Asthenia 1 <	Carbuncle		1
55 Osteitis 1 — 57c Congenital heart disease 1 1 58 Asthenia 1 — 58 Congenital debility 18 11 58 Manition 1 1 58 Malnutrition 1 1 58 Marasmus 10 3 58 Want of vitality 1 1 59 Prematurity 36 7 60 Difficult labour 1 1 60 Dystocia 3 3 61a Atalectasis 14 2 61a Dyspnoea 2 2 61c: 1 Septic infection of umbilicus 4 1 62b Senility 62 11 80			$\frac{1}{2}$
55 Osteitis 1 — 57c Congenital heart disease 1 1 58 Asthenia 1 — 58 Congenital debility 18 11 58 Manition 1 1 58 Malnutrition 1 1 58 Marasmus 10 3 58 Want of vitality 1 1 59 Prematurity 36 7 60 Difficult labour 1 1 60 Dystocia 3 3 61a Atalectasis 14 2 61a Dyspnoea 2 2 61c: 1 Septic infection of umbilicus 4 1 62b Senility 62 11 80			$\frac{1}{2}$
57c Congenital heart disease 1 1 58 Asthenia 1 58 Congenital debility 18 11 58 Inanition 1 1 58 Malnutrition 1 1 58 Marasmus 10 3 58 Want of vitality 1 1 59 Prematurity 36 7 60 Difficult labour 1 1 60 Dystocia 3 3 61a Atalectasis 14 2 61a Dyspnoea 2 2 61c: 1 Septic infection of umbilicus 4 1 62b Senility 2 </td <td>() .+ -: +: -</td> <td>1</td> <td></td>	() .+ -: +: -	1	
58		1	1
58 Inanition 1 1 58 Malnutrition 1 1 58 Marasmus 10 3 58 Want of vitality 1 1 59 Prematurity 36 7 60 Difficult labour 1 1 60 Dystocia 3 3 61a Atalectasis 14 2 61a Dyspnoea 2 2 61c:1 Septic infection of umbilicus 4 1 62b Senility 62 11 62b Septic infection of umbilicus 4 1 62b Septic infection of umbilicus 4 1 62b Septic infection of umbilicus 4 1 80 Conflagration (injuries) 2 2 84 Accidental fracture 23 8 93 Electric shock 1 1 94:2 Accidental fracture 3 3 98 Judicial ex	Asthania	1	
58 Inanition 1 1 58 Malnutrition 1 1 58 Marasmus 10 3 58 Want of vitality 1 1 59 Prematurity 36 7 60 Difficult labour 1 1 60 Dystocia 3 3 61a Atalectasis 14 2 61a Dyspnoea 2 2 61c: 1 Septic infection of umbilicus 4 1 62b Senility 62 11 80 Conflagration (injuries) 2 2 84 Accidental injury by firearms 1 1 93 Electric shock 1 1 94: 2 Accidental fracture 23 8 95 Found drowned 3 3 98 Judicial execution 1 1 00: 1 Cardiac exhaustion 1 00: 2 Abdo	Congenital debility	. 18	11
58 Marasmus 10 3 58 Want of vitality 1 1 59 Prematurity 36 7 60 Difficult labour 1 1 60 Dystocia 3 3 61a Atalectasis 14 2 61a Dyspnoea 2 2 61a Dyspnoea 2 2 61a Dyspnoea 2 2 61a Dyspnoea 2 2 61c: 1 Septic infection of umbilicus 4 1 62b Senility 62 11 80 Conflagration (injuries) 2 2 84 Accidental injury by firearms 1 1 94: 2 Accidental fracture 3<	Inanition	. 1	1
58 Want of vitality 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 2 1 1 2 2 2 1 1 1 2 2 3 8 3 3 3 3 3 3 3 3 3 3 3 3 3			1
59 Prematurity 36 7 60 Difficult labour 1 1 60 Dystocia 3 3 61a Atalectasis 14 2 2 61a Dyspnoea 2 2 2 61c:1 Septic infection of umbilicus 4 1 1 62b Senility 62 11 80 Conflagration (injuries) 2 2 84 Accidental injury by firearms 1 1 1 93 Electric shock 1 1 1 94:2 Accidental fracture 23 8 8 95 Found drowned 3 3 3 98 Judicial execution		. 10	3
60 Difficult labour 1 1 60 Dystocia 3 3 61a Atalectasis 14 2 61a Dyspnoea 2 2 61c:1 Septic infection of umbilicus 4 1 62b Senility 62 11 80 Conflagration (injuries) 2 2 84 Accidental injury by firearms 1 1 93 Electric shock 1 1 94:2 Accidental fracture 23 8 95 Found drowned 3 3 98 Judicial execution 1 1 00:1 Cardiac exhaustion 1 - 00:2 Abdominal disease 1 - 00:2 Ascites 2			1
61c:1 Septic infection of umbilicus 4 1 62b Senility 62 11 80 Conflagration (injuries) 2 2 84 Accidental injury by firearms 1 1 93 Electric shock 1 1 94:2 Accidental fracture 23 8 95 Found drowned 3 3 98 Judicial execution 1 1 00:1 Cardiac failure 3 3 00:1 Cardiac exhaustion 1 - 00:2 Abdominal disease 1 - 00:2 Ascites 2 1 00:2 Debility 7 - 00:2 Hyperpyrexia 2 1			
61c:1 Septic infection of umbilicus 4 1 62b Senility 62 11 80 Conflagration (injuries) 2 2 84 Accidental injury by firearms 1 1 93 Electric shock 1 1 94:2 Accidental fracture 23 8 95 Found drowned 3 3 98 Judicial execution 1 1 00:1 Cardiac failure 3 3 00:1 Cardiac exhaustion 1 - 00:2 Abdominal disease 1 - 00:2 Ascites 2 1 00:2 Debility 7 - 00:2 Hyperpyrexia 2 1		· ·	1
61c:1 Septic infection of umbilicus 4 1 62b Senility 62 11 80 Conflagration (injuries) 2 2 84 Accidental injury by firearms 1 1 93 Electric shock 1 1 94:2 Accidental fracture 23 8 95 Found drowned 3 3 98 Judicial execution 1 1 00:1 Cardiac failure 3 3 00:1 Cardiac exhaustion 1 - 00:2 Abdominal disease 1 - 00:2 Ascites 2 1 00:2 Debility 7 - 00:2 Hyperpyrexia 2 1			3
61c:1 Septic infection of umbilicus 4 1 62b Senility 62 11 80 Conflagration (injuries) 2 2 84 Accidental injury by firearms 1 1 93 Electric shock 1 1 94:2 Accidental fracture 23 8 95 Found drowned 3 3 98 Judicial execution 1 1 00:1 Cardiac failure 3 3 00:1 Cardiac exhaustion 1 - 00:2 Abdominal disease 1 - 00:2 Ascites 2 1 00:2 Debility 7 - 00:2 Hyperpyrexia 2 1			2
62b Senility 62 11 80 Conflagration (injuries) 2 2 84 Accidental injury by firearms 1 1 93 Electric shock 1 1 94:2 Accidental fracture 23 8 95 Found drowned 3 3 98 Judicial execution 1 1 00:1 Cardiac failure 3 3 00:1 Cardiac exhaustion 1 - 00:2 Abdominal disease 1 - 00:2 Ascites 2 1 00:2 Debility 7 - 00:2 Hyperpyrexia 2 1	Soutia infaction of ambiliance		2
80 Conflagration (injuries) 2 2 84 Accidental injury by firearms 1 1 93 Electric shock 1 1 94:2 Accidental fracture 23 8 95 Found drowned 3 3 98 Judicial execution 1 1 00:1 Cardiac failure 3 3 00:1 Cardiac exhaustion 1 - 00:2 Fever 6 - 00:2 Abdominal disease 1 - 00:2 Ascites 2 1 00:2 Debility 7 - 00:2 Hyperpyrexia 2 1	Ct •1•:	00	
84 Accidental injury by firearms 1 1 93 Electric shock 1 1 94:2 Accidental fracture 23 8 95 Found drowned 3 3 98 Judicial execution 1 1 00:1 Cardiac failure 3 3 00:1 Cardiac exhaustion 1 - 00:2 Fever 6 - 00:2 Abdominal disease 1 - 00:2 Ascites 2 1 00:2 Debility 7 - 00:2 Hyperpyrexia 2 1		9	
93 Electric shock 1 1 94:2 Accidental fracture 23 8 95 Found drowned 3 3 98 Judicial execution 1 1 1 Cardiac failure 3 3 30:1 Cardiac exhaustion 1 - 00:2 Fever 6 - 00:2 Abdominal disease 1 - 00:2 Ascites 2 1 00:2 Debility 7 - 00:2 Hyperpyrexia 2 1	Accidental injury by fivourme	~ 1	
94:2 Accidental fracture 23 8 95 Found drowned 3 3 98 Judicial execution 1 1 00:1 Cardiac failure 3 3 00:1 Cardiac exhaustion 1 - 00:2 Fever 6 - 00:2 Abdominal disease 1 - 00:2 Ascites 2 1 00:2 Debility 7 - 00:2 Hyperpyrexia 2 1	[1] = = 1 1]]	4	
98 Judicial execution 1 1 00:1 Cardiac failure 3 3 00:1 Cardiac exhaustion 1 — 00:2 Fever 6 — 00:2 Abdominal disease 2 1 00:2 Ascites 2 1 00:2 Debility 7 — 00:2 Hyperpyrexia 2 1	1 17 1 2 0	0.0	$\frac{1}{8}$
98 Judicial execution 1 1 00:1 Cardiac failure 3 3 00:1 Cardiac exhaustion 1 — 00:2 Fever 6 — 00:2 Abdominal disease 2 1 00:2 Ascites 2 1 00:2 Debility 7 — 00:2 Hyperpyrexia 2 1	Found drowned	63	3
00:1 Cardiac failure 3 3 00:1 Cardiac exhaustion 1 — 00:2 Abdominal disease 1 — 00:2 Ascites 2 1 00:2 Debility 7 — 00:2 Hyperpyrexia 2 1	т 1 т	-4	1
00:1 Cardiac exhaustion 1 — 00:2 Abdominal disease 1 — 00:2 Ascites 2 1 00:2 Debility 7 — 00:2 Hyperpyrexia 2 1		9	3
00:2 Fever 6 — 00:2 Abdominal disease 1 — 00:2 Ascites 2 1 00:2 Debility 7 — 00:2 Hyperpyrexia 2 1	Cardiac exhaustion	1	_
00:2 Abdominal disease 1 — $00:2$ Ascites 2 — 1 00:2 Debility 7 — 1 —	Fever	6	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Abdominal disease		
00:2 Hyperpyrexia 2 1		2	1
			-
30:3 Unknown 93 —	Hyperpyrexia		1
	Unknown	93	
	•		
		1	
		Osteomyelitis Osteitis Congenital heart disease Asthenia Congenital debility Inanition Malnutrition Marasmus Want of vitality Prematurity Difficult labour Dystocia Atalectasis Dyspnoea Septic infection of umbilicus Senility Conflagration (injuries) Accidental injury by firearms Electric shock Accidental fracture Found drowned Judicial execution Cardiac failure Cardiac exhaustion Fever Abdominal disease Ascites Debility Hyperpyrexia	Osteomyelitis

TABLE N

Showing the population of Freetown and the Colony by nationality and sex at the Census of 1931.

					Ĭ	FREETOWN.		APART	COLONY FROM FREETOWN.	rown.	MH	WHOLE COLONY	MY.
					Persons.	Males.	Females.	Persons.	Males.	Females.	Persons.	Males.	Females.
Protectorate native tribes	:	:	•		28,233	17,115	11,118	28,696	17,133	11,563	56,929	34,248	22,681
*Sierra Leoneans (Creoles)		0 0	:	:	20,970	9,353	11,617	11,876	5,085	6,791	32,846	14,438	18,408
Kroos (from Liberia)	:	•	:	:	4,460	2,392	2,068	21	12	6	4,481	2,404	2,077
Other African non-natives	(from	Nigeria,	Gold	Coast,									
Gambia, etc		:			580	384	196	104	02	34	684	454	230
West Indians	•	•	•	:	\$3	55	28	13	∞	20	96	63	33
Mulattoes	:	•	•	:	121	85	63	28	∞	20	149	99	83
Various	•	•	:	:	226	166	09	148	97	51	374	263	111
†Europeans		•	•	:	586	210	92	‡135	66	36	421	309	112
‡Syrians	:	:	:	:	375	258	117	38	24	14	413	282	131
§Indians	•		•	:	19	16	ಣ	4	4		23	20	ಣ
Arabs (of African birth)	:	:	:	:	ð	4	T	П	П	1	9	,c	-
Total	•	• •	:	•	55,358	30,011	25,347	41,064	22,541	18,523	96,422	52,552	43,870

Protectorate owing to lack of trade, and to the fact that there is a tendency for persons of purely aboriginal blood having embraced Christianity and obtained a little be themselves as Sierra Leonean. In the remainder of the Colony their numbers decreased by 555, which probably indicates a gradual movement from rural places to * Creoles are the descendants of Liberated Africans who were placed in Sierra Leone in accordance with the enactments made for the suppression of the slave trade. They represent the Christain and educated class and are sometime called Sierra Leoneaus. In Freetown their numbers increased from 15,791 in 1921 to 20,970 in 1931. The increase is partly due to persons returning from the education, to descri Freetown.

†The great majority are Government officials who live on the residential area at Hill Station, which is situated on the hills near Freetown.

† Of the total 413 Syrians, 90.8 per cent. reside at Freetown, where their numbers increased from 156 to 375 in the intercensal period. Elsewhere in the Colony their numbers increased from 45 in 1921 to 131 in 1931. Of the total 22.7 per cent. were born in Sierra Leone. The males are all engaged in trade as merchant or as their clerks, salesmen or shop assistants. The Syrians are now well established as successful traders both in the Colony and Protectorate vide infra and a steady increase in their numbers may be expected.

The number of Indians appears to fluetuate with trade conditions generally. In 1911 there were 24 in the Colony, 4 in 1921 and 23 in 1931. In 1921 there were 15 in the Protectorate, in 1931 only 2.

TABLE O.

Protectorate Population, Census 1931.

	Aborngmal Natives.	793,877	873,913
	Total.	2,515	1,753
	Miscellaneous.	46	26
	Mullattoes.	$\frac{x}{2}$	09
	West Indians.	9	1
*Non-Natives.	Arabs.	14	ಣ
X *	Indians.	ଷ	1
	‡Syrians.	561	192
	, §Europeans.	173	58
	†Creoles.	1,632	1,414
		Males	Females

*This represents the population for which registration of births and deaths is compulsory. Registration applies only to comparatively small and isolated districts where trading activities attract the presence of non-natives. Their number decreased by 339 during the intercensal period.

†The Creoles are for the most part traders, mercantile clerks, Government officials, catechists and school teachers. Their number decreased by 789 in the intercensal period, probably owing to the recent trade depression.

The number of Europeans has been increased since the Census by the presence of staffs engaged in mining operations at Marampa, Maranda, Tonkolili, Yengema and various small prospecting camps throughout the Protectorate.

[‡]The Syrian population increased from 386 to 753, of whom 134 were born in Sierra Leone.

\$\|\|\ 81.5 per cent. are African-Syrians.

TABLE P.

Showing population according to sex and sex-ratio at 1931 Census, total population figures for 1931 and mid-year (estimated) 1935, births and death-rates at Freetown and at Accra, Kumasi and Schondi in the Gold Coast, 1935.

1							1	
	Infant Mortality.		227	140	148	83		ļ
	Deaths under one year 1935.	3	308	to the second				
	Death-rate 1935		22.5	24.0	21.0	15.3		I
	Deaths 1935.		1,375	1,696	861	307		
	Birth-rate 1935.		6.53	40.1	21.6	22.1		
	Births 1935.		1,358	2,772	888	444		
	Mid-year 1935.		60,903	69,057	40,987	20,120		
		Persons.	55,358	60,726	35,829	16,953		
Population.	1931.	Ratio: Males: Females.	118.4 : 100			**		92 : 100
		Females.	25,347	27,893	14,610	6.933		
		Males.	30,011	52,833	21,219	10,020		1
			Freetown	Acera	Kumasi	Sekondı		England and Wales

III-Prisons and Asylums.

KISSY LUNATIC ASYLUM.

- 67. Staff.—Medical Officer-in-charge
 First Class Dispenser
 Chief Attendant
 Assistant Chief Attendant
 11 Male Attendants
 Matron
 3 Female Attendants
 1 Cook
 4 Porters.
- 68. There has been a marked decrease in the number of deaths during the period under review, a total number of 5 as against 11 in 1935.
 - 69. The deaths were due to the following:—
 - 1. Subacute nephritis-pneumonia
 - 2. General sepsis
 - 3. Pulmonary tuberculosis
 - 4. Lobar pneumonia
 - 5. Pulmonary tuberculosis-ascariasis.
- 70. The Male Visiting Committee made four visits and the Female Visiting Committee one visit. Parties from various religious associations made eight visits.
- 71. Dr. Cunyngham Brown visited the Asylum in September and interviewed each of the inmates.
 - 72. Dr. E. Muir, Leper Commissioner, visited the Leper Ward on 18th June.
 - 73. The following table gives the statistical details of in-patients during the year:—

			Males.	Females.	Total.
Remaining in Asylum 31st December,	1935	 	51	35	86
Admitted certified		 	1	2	3
Admitted under observation		 	47	11	58
Deaths amongst certified		 	4	1	5
Discharged after observation		 	34	8	42
Discharged as cured		 	2		2
Discharged on trial (Governor's Order))	 			
Re-admitted		 	3		3
		 	1		1
Number of patients certified		 	11	1	12
Remaining in Asylum 31st December,	1936	 	59	37	96

ANNUAL MEDICAL REPORT ON THE FREETOWN PRISON FOR THE YEAR ENDED 31st DECEMBER, 1936.

- 74. Dr. E. J. Wright, Senior Medical Officer (Sierra Leone) was in charge from 1st January to 8th May when he was relieved by Dr. W. J. Laird, Medical Officer. The latter continued up to 8th June when he was relieved by Dr. G. E. C. Reffell, a private Medical Practitioner. Dr. Laird again took over from Dr. Reffell on 3rd July and continued up to 20th October when Dr. E. J. Wright resumed duty. Dr. Wright remained in charge up to the end of the year.
- 75. Mr. P. Q. A. John was Resident Dispenser from 1st January to 20th May when he was relieved by Mr. I. B. Doherty who continued to the end of the year under review.

GENERAL HEALTH.

(a) Prison Officers.

- 76. European.—Good. Four minor complaints were treated during the year.
- 77. Africans.—Fairly good. There were 64 officers including two Government officials on the Prison Staff during the year. Of these, 19 were placed on the sick list for an aggregate period of 92 days and 12 were referred to the Connaught Hospital for institutional treatment; one of whom was invalided from the service on medical grounds.

(b) Prisoners.

78. The general health of the prisoners throughout the year was good and there was no epidemic. There were 902 out-patient new cases treated with 10,409 subsequent attendances as compared with 678 and 9,287, respectively during the previous year. The prevailing diseases treated were:—Avitaminosis, diseases of digestive system, skin diseases and local injuries.

- 79. Four cases were remaining in hospital at the end of 1935 and 112 cases were admitted into Gaol Hospital. Two deaths took place during the year (1) on 1st January from chronic disseminated tuberculosis and on 7th October from chronic nephritis. Two prisoners with urethral stricture and one with abscess right hip were referred to the Surgical Specialist for treatment and were returned the former relieved and the latter cured. One case of chicken pox was discovered on 23rd May and one case of typhoid on 19th September. Isolation with precautionary measures were taken against a spread. The case of typhoid fever was transferred to the Connaught Hospital where he was admitted and thereafter discharged cured. No other prisoner had the infection.
- 80. One case of lobar pneumonia and two cases of amæbic dysentery with one undefined case of dysentery were admitted into hospital during the year and were eventually discharged from hospital cured.
- 81. One case was admitted with a severe attack of stomatitis and two (Europeans) with acute malaria all of which yielded rapidly to treatment. Eight prisoners were sent to the Mental Hospital, Kissy under Certificate of Emergency and were detained.
 - 82. One condemned prisoner was executed on 19th May, 1936.
- 83. Apart from the Medical Officer's daily attendance prisoners reported at all hours with various complaints mostly trivial and on Wednesday afternoons, a medical inspection of all prisoners forms a regular routine and the administration of general prophylactic treatment is carried out.
 - 84. The monthly weight of prisoners ranged between 84 and 214 pounds.
- 85. There were 360 specimens from prisoners with three months' sentence and over sent to the Pathological Laboratory for examination made up as follows:—

Fæces Blood				 312 36
Sputum		• •	• •	 12
	Total			 360

and the findings were as follows:

. midnigs were as follows .—					
Ankylostoma ova		* * *			IOI
Ankylostome and ascaris o	va	• • •			12
Ankylostome and ascaris ar	id his	tolytica-cy	sts		I
Ankylostoma and strongyloi	ides la	arvæ			8
Ankylostoma and E. coli co	ysts				7
Ankylostoma and E. histol	ytica	cvsts			3
Ascaris ova					24
Ascaris ova and strongyloid					I
Ascaris ova and strongyloide	s larv	æ and E.	coli ev		- I
Ascaris ova, strongyloides an	d triel	uris larva	s com cy.	365	2
Tæina ova				• • •	12
Tæma and ankylostoma ova	•••		* • •	•••	
Tæma and ankylostoma ova	and		ctc	• • •	3 2
Strongyloides larvæ	and .		SIS	* * *	7
Thickness are		• • •	• • •	• • •	-
Trichuris and ankylostoma	• • •	• • •	• • •	• • •	9
Entamœba histolytica cysts		• • •	• • •	* * •	I
		• • •	• • •	* * *	5
Entamœba coli cysts	• • •	•••	• • •	• • •	4
Giardia cysts	• • •	• • •	• • •	• • •	3
Trichuris and ascaris ova		• • •	• • •	• • •	4
Trichuris ova and strongylo	ides l	arvæ	• • •	• • •	2
No parasites	•••	•••	• • •	• • •	100
				Total	312
1	BLOOD				The Property lies
Malaria tertian rings					15
Malaria quartan					3
Negative					18
				Total	36

SPUTUM.

No acid fast bacilli 12

- 86. The sanitary condition of the Prison was satisfactory throughout the year.
- 87. A statistical Return is appended herewith.

Infectious Diseases Bulletin.

Tuberculosis 1 case, chicken-pox 1, typhoid 1, dysentery amæbic 2, dysentery undefined 1, pneumonia 1.

VISITS.

88. On 14th January—The Honourable Colonial Treasurer and Senior Assistant Colonial Secretary.

On 5th March—Mr. E. A. C. Noah—Visiting Justice.

On 18th March—Mr. E. H. Cummings, M.B.E.—Visiting Justice.

On 23rd May—The Visiting Justice.

On 9th June—His Excellency the Acting Governor. On 19th June—Mr. E. A. C. Noah—Visiting Justice.

On 14th August-Mr. E. H. Cummings, M.B.E.-Visiting Justice.

On 8th October-Mr. E. A. C. Noah-Visiting Justice.

On 22nd October—The Visiting Justice.

On 19th November-Mr. T. A. Thompson-Visiting Justice,

On 16th December—His Excellency the Governor, Sir Henry Moore, K.C.M.G.

E. J. WRIGHT,

Senior Medial Officer, Sierra Leone.

FREETOWN PRISON,

20th January, 1937.

STATISTICAL RETURN OF THE FREETOWN PRISON FOR THE YEAR, 1936.

Remaining in hospital at the end of December, 1935	 4
Admitted during the year 1936	 112
Died during the year 1936	 2
Remaining in hospital at the end of December, 1936	 6
Daily average number of prisoners in gaol	 233.12
Daily average number of prisoners in hospital	 3.88

OUT-PATIENTS.

European Officials including Government Employees.

	 			New Cases,	Subsequent Attendances.
Manah awantan					
March quarter	 * *	• •	 		
June quarter	 		 	1	6
September quarter	 		 	1	7
December quarter	 		 	2	23
			-		
				4	36

African Officials including Government Employees.

			New Cases.	Subsequent Attendances.
March quarter June quarter September quarter December quarter	 	 	 38 33 20 8	64 74 65 9
			99	212

Out-Patients—Prisoners

	_		 	New Cases	$egin{array}{c} ext{Subsequent} \ ext{Λ} ext{ttendances.} \end{array}$
March quarter			 	 252	2,875
June quarter			 	 222	2,611
September quarter			 	 213	2,034
December quarter		; •	 	 215	2,889
				902	10,409

In-Patients.

	Admitted.	Cured.	Relieved.	Not Relieved.	Died.	Observation.
March quarter June quarter September quarter December quarter	18 29 34 31	12 19 10 13	3 10 15 10	2 - 9 6	. 1 — — 1	
	112	54	38	17	2	1

PRISONERS.

		rigge makes made fragient i state de Corles, qu'il destruice de vi	107. 31; Nadika: 98 (1986-1979) (1667)	New Admissions Examined	Remands and Trials.	Corporal Punish- ment.	Execution.	Solitary Con- finement.
June quarter September quarter	• • • • • • • • • • • • • • • • • • • •	 		202 135 228 187	22 28 27 17		1	41 60 86 58
	•			752	94		1	245

			1		
	1932.	1933.	1934.	1935.	1936.
Total number of prisoners admitted	749	895	788	813	752
Average strength	233	264	260	243	233
Total death excluding execution	7	5	2	4	2
Total number of prisoners on sick list	152	196	78	82	112
Daily average number on sick list	6.25	7.03	4.45	3.59	3.88
Daily sick rate per 1,000 average strength	26.82	26.51	17:10	12.34	12.87
Death-rate per 1,000 average strength	30.40	18.93	7.69	16.46	8.58

THE RESIDENCE OF THE PROPERTY	Prison.						Daily Sick Rate per 1,000 of Average Strength.	Death-rate per 1,000 of Average Strength.
Freetown						233	12.87	8.58
Kenema Moyamba						63 28	4:76 107:14	31·74 35·71
Pujehun		• •				11	90.9	

E. J. WRIGHT,
Senior Medical Officer (Sierra Leone),
in charge of Freetown Prison.

Prisons Department, Freetown.

IV-Hygiene and Sanitation.

1-GENERAL REVIEW OF WORK DONE AND PROGRESS MADE.

1—PREVENTIVE MEASURES.

- (a) Insect-borne Diseases.
- 89. Malaria.—During the year the routine measures directed against insect-borne disease have been carried out with intensified vigour. In addition to the routine clearing of weeds and high bush, the oiling of pools and swampy low-lying areas, regular house to house inspection, etc., drainage of swamps has been carried out in certain stations in the Protectorate with very satisfactory results:
- 90. The canalisation of streams around Freetown has been proceeded with and new concrete drains have been laid replacing old brick drains which offered every facility for the breeding of mosquitoes. In addition, the prophylactic use of quinine has increased and a method has been introduced whereby the inhabitants in the more remote parts of the l'iotectorate can obtain quinine at a reasonable cost.
- 91. The report of the Medical Officer (Health) is given below, showing the activities of the Health Branch in the City of Freetown which can be taken as the routine measures adopted in all stations where Medical Officers are posted.

EUROPEAN STAFF.

- 92. Medical Officer (Health).—Dr. W. Allan, Medical Officer (Health), left the Colony on the 17th June on leave and was relieved by Dr. E. H. Taylor-Cummings who took over the duties of Medical Officer (Health) as from that date until the end of the year.
- 93. Sanitary Superintendents.—Mr. P. Osment returned from leave on the 25th April. Mr. A. E. Wilkinson proceeded on leave on the 26th August. Mr. W. C. Seers, who is engaged in health work in the Protectorate, arrived in the Colony on the 28th March. He did temporary duties in this office from the 27th August to the 28th November.

AFRICAN STAFF.

- 94. There was one Third Grade Clerk, Mr. W. S. Archer Davies. A junior clerk from the City Council was seconded to this office for training.
 - 95. Sanitary Inspectors and Learners.—There are: -
 - 2 Second Grade Sanitary Inspectors
 - 2 Third Grade Sanitary Inspectors
 - 8 Fourth Grade Sanitary Inspectors
 - 21 Fifth Grade Sanitary Inspectors
 - 9 Sanitary Learners.

The total number of inspectorate staff is 42. Of this number, 18 Inspectors were detailed for duty at various stations in the Protectorate and 15 in Freetown and the Head-quarters Judicial District. The 9 Sanitary Learners were all stationed in Freetown.

96. Training of African Staff.—All Fourth and Fifth Grade Sanitary Learners received practical training during the course of the year, and lectures were given once weekly for four months by the Medical Officer (Health). Towards the end of the year written and practical examinations were held based on the course of training. In addition there were six temporary Sanitary Learners under training. The results were satisfactory.

HEALTH WORK IN FREETOWN.

- 97. The daily routine work continues to be satisfactory. From time to time it has been found difficult to maintain the amount of supervision necessary for efficient control and working of the staff, especially when there is a departure from the normal, as is often the case when the Health Branch is concentrating on preventing the spread of infectious diseases.
- 98. In the latter part of the year owing to the concealment of cases of smallpox, more so in the overcrowded eastern portion of the town and the village of Kissy, the Health Branch was compelled to work long hours at top pressure. Three Inspectors were recalled from the Protectorate for temporary duty in Freetown. Until vaccination is compulsory in the Colony and the Protectorate, the danger of an epidemic among the large numbers of non-immunes is evident.

ANTI-MALARIAL MEASURES.

- 99. Inspection of Compounds.—Freetown, for the last few years, has not been so heavily plagued with Anopheles. This fact is no doubt due to the daily inspections of compounds, drains, trees rock-pools, quarries, and swampy areas.
- Inspector who is detailed to inspect, advise and report on forty compounds daily. In addition to the routine inspection of compounds by sectional Inspectors, mass intensive inspections were organized from time to time, these drives gave excellent results in anti-malarial work. Surprise visits are paid either by the Medical Officer (Health), the Sanitary Superintendents or the Senior Sanitary Inspectors. The work of those in charge of sections was satisfactory.
- During the year 129,548 compounds were inspected, as compared with 110,478 in 1935. 315 samples of mosquito larvæ were found. Summons are not issued for larvæ found in trees, rock-pools and cesspits. 382 prosecutions were made including 308 for mosquito larvæ; 365 persons were convicted. Below is a table of fines inflicted during the year:—

	Offence.								Fine	
Mosquito larvæ Insanitary cesspits Insanitary compound Other offences include Obstructions	ds	··· ··· ncealment ··	of infec	tious dise	ase		308 31 12 11 3	£ 48 4 1 10 0	s. 1 6 19 2 15	d. 0 6 0 0
The larvæ we	1	.0.1	C 11					£65	3	6

The larvæ were classified as	follows:	_				
Anopheline	•••	• • •	• • •		I	\
Culex	•••		• • •		97	o 24 per cent. in compounds.
	• • •	• • •	• • •	• • •	211	in compounds.
Culex and Steg	omyıa	* * *	• • •	• • •	6)
	7 13	. 1				
	1.0	otal	• • •		315	

- 102. After prosecution, specimens were sent to the Sir Alfred Jones Research Laboratory for detailed classification.
- and nine labourers. At the beginning and end of the rains their work is considerably increased, but during the heavy rains it is correspondingly decreased. The seepage adjacent to the temporarily canalised brooks has to be constantly oiled; earth drains, rock-pools, ditches, disused quarries are visited and treated every six days.
- The concrete drainage scheme undertaken by the Public Works Department continues to make progress; one of the most important concrete drains laid was that of Regent Road and adjacent feeder streets, in addition falls of old drains were correctly graded and defective drains were repaired.
- 105. Larvæ found in pools and gutters were more numerous in the western outskirts of the town. Pools and drains oiled were 27,989.

 2 0010 and arains offed	WCIC	4/,909.				
Anopheles	• • •	• • •			IO) 0.05 per cent.
Culex	• • •		• • •	• • •	4	o o 5 per cent. in pools and gutters.
Stegomyia	• • •	• • •	• • •	• • •	nil) gutters.

14

106. Inspection of Boats and Canoes.—There were 5,712 boats and canoes inspected and one case of Anopheline larvæ found. (Larval index = 0.01%.)

- 107. At the Government Wharf larvæ of Aedes were found on one occasion in the channel iron of one of the sliding doors of the Customs Warehouse.
- breeding. As long as Freetwon maintains its rural aspect, the culex and aedes mosquito will always be present. Much more remains to be done in order to lessen the larval index with a view to final extermination.

109. 131,763 trees were examined, holes and fissures were chipped and drained or were fined with a maxture of tar, said and cement. Tree-felling gaings were employed throughout the year, and in addition old and dangerous trees belonging to private individuals were felled at their request.

Number of trees	s inspected				131,70	63
Number of trees				• • •	2	14
Number of hole	Number of holes chipped				1,4	25
Number of holes	cemented		• • •		2,12	21
Larvæ found:—						
Anopheles					Nil)
Culex			• • •		25	(0.07 per cent.
Aedes .					69	(in trees
Culex and A	Aedes		• • •		2)
					- 96	

- 110. At Tower Hill near the Sir Alfred Jones Research Laboratory a large cotton tree is under suspicion as being a breeding place of mosquitoes The felling of this tree is being carried out as soon as possible.
- Cesspits.—Some of the cesspits, especially during the rainy season, become water logged; these were regularly oiled. Their constant inspection is one of the branches of anti-malarial work in the compounds of Freetown. Although the danger of underground water pollution, since the closing of surface wells, has been considerably diminished, as potential breeding places of mosquitoes, cesspits are still very dangerous.
- During the year 2,053 cesspits were oiled and 3,561 notices were served on occupiers to clean their cesspits and/or make structural repairs.
- 113. Canalisation.—Owing to the unusual late rains it was found unnecessary to temporarily canalise the streams as in former years.
- 114. Permanent canalisation by the Public Works Department was undertaken. The year's programme consisted of the canalisation of Sambah Gutter and the street drainage of the upper section of Wellington Street. It is hoped that it will not be long before all the streams running through and around the periphery of Freetown will be canalised. The permanent canalisation of Sanders Brook has been the means of diminishing the number of Anopheles in this area.
- 115. Tins and Bottles.—A gang, designated "Tins and Bottles" gang, is employed during the rainy season to collect empty tins and broken bottles; recently a lucrative market for empty bottles has been opened and most of the bottles now find their way to the local bottling factories.
- gangs have been employed during the year. Their work consists of clearing tall grass and bush in order to prevent the accumulation of old tins and bottles and to lessen insect pests.

Mosquito Larvæ Index.

			1934.	1935.	1936.
First quarter Second quarter Third quarter Fourth quarter	 	• •	0·29 2·00 2·68 0·86	1·14 1·43 nil 0·29	0·29 1·43 0·86 1·43

Conditions during the second and fourth quarters, as far as rainfall was concerned, were similar and almost identical. This fact probably accounts for the rise in the fourth quarter in the year.

INFECTIOUS DISEASES.

118. Smallpox.—There were 29 cases of smallpox, 12 of which were imported; the type was virulent. There were 8 deaths giving a case mortality of 27.6 per cent. Two patients were found dead in private houses during the usual investigation into the cause of deaths. None of these fatal cases bore vaccination marks. Vaccination should be made compulsory in infancy in Freetown and a system evolved in which all entrants into the town by the main routes, sea, river and rail must be vaccinated before being allowed to mingle with

the town unprotected population. The staff has worked very hard in delimiting the outbreaks that were experienced, taking charge of corpses, disinfecting and burying them, removing cases to Kissy Infectious Diseases Hospital, disinfecting the houses and evacuating contacts to the Cape Quarantine Station. Two contacts developed the disease during the period of surveillance and were taken to Kissy by sea route.

- 119. An Infectious Diseases Ambulance is essential; refuse disposal lorries are not suited to the transport of a sick man over a distance of three miles, or a group of contacts to the Cape Quarantine Station.
- 120. 8,488 vaccinations were performed in Freetown during the year, over 6,000 being done in the month of December.
- Barracks. One of the contacts developed the disease during the quarantine period.
- 122. Pulmonary Tuberculosis.—The incidence of this disease which has been increasing during recent years shows a very welcome drop, 76 cases of pulmonary tuberculosis were notified in 1936 as against 173 in 1935.
- practice of closing bedroom windows at night also the ignorance of the procedure to be adopted in isolating patients. When a case is notified the house is visited and disinfected after the removal of the patient. Propaganda work is being carried out in an attempt to limit the spread of this disease which undoubtedly runs a very rapid course in the tropics.
- in Freetown, one of which was an imported case; there were two deaths; in addition there was a case at Wilberforce Village and an imported case at Hill Station. The infection does not appear to arise from a common source owing to the sporadic nature of the cases which were not confined to a particular area. In one case the source of infection was traced to a previous fatal case. In another instance, a patient was suspected of being a carrier, but on examination the patient was found to be sterile to the bacillus typhosus and paratyphosus. Nevertheless, exposed and unprotected foodstuffs offered for human consumption are potential sources of infection; in addition the numerous cesspits in Freetown may have some bearing on the incidence of typhoid fever. Every case which was confirmed by laboratory findings was notified and rigorous methods to delimit the disease were taken.
- 125. Contacts were in several instances advised to receive the inoculation of T.A.B. vaccine, many of whom availed themselves of this opportunity.
 - 126. Plague.—No cases have occurred during the year.

Between March 1st and August 31st, 3,660 rats were trapped and examined. There are five species of rats in Freetown. The black rats predominated. 2,600 were caught in comparison with 600 brown rats and 450 mice. The brown rats, however, are more numerous along the sea front. Twenty rats on the average were examined daily for bacillus pestis, no rat showed any signs of infection.

- 127. The rat flea index is estimated at 3. An investigation is in progress as regards the rat population of the city of Freetown.
- 128. Yellow Fever.—There was no case of yellow fever in Freetown during the year. Several cases were reported from neighbouring colonies and the Port Health work was considerably increased in the examination of suspected ships, crew and passengers.
 - 129. The following other infectious diseases were notified:

Diphtheria.........1 case (at Hill Station)Erysipelas.........1 caseInfective paratitis.........2 casesTyphus fever.........1 case

REFUSE COLLECTION AND DISPOSAL.

130. During the year 151,039 head loads of dry refuse, 5,708 head loads of tins and bottles, and 8,757 lorry loads were disposed of. 14,338 tons of refuse were deposited at Cline Town Refuse Disposal Siding in trucks which were taken by rail to the final disposal dump at Allen Town.

- 131. At various times when it was not possible to use the siding, refuse was dumped in vacant lands owned by private individuals mostly in the eastern part of the town, the usual precautions to render these temporary dumps free of flies, rats and other vermin were adopted.
- trucks instead of five and with two shoots installed, all refuse will arrive at Allen Town on the day of collection. Refuse is still collected from public dust-bins which are for the most part unsightly, difficult to control, and a possible menace to increasing vehicular traffic.
- 133. The ideal method of house to house collection was tried but, owing to the inadequacy of the Health Branch Lorry Fleet, householders not having in their possession suitable and easily portable dust-bins with well-fitting lids, this method had to be abandoned for the time being.
- The Health Committee of the City Council has recommended, and the City Council has approved, an indent for a large quantity of dust-bins. These will be sold to owners and occupiers of compounds at cost price. When these have been distributed it may be possible to reorganise the collection of refuse; it must, however, be remembered that Freetown bears a rural aspect, and there will be much bulky vegetable refuse, especially after the harvesting of crops and also after a tornado, which cannot be conveniently placed in the regulation size sanitary dust-bins.
- Morris lorries were taken off the road. It has been suggested that one of these be converted to an Infectious Diseases Ambulance; it will serve a double purpose, by relieving the refuse lorries which now have to be used to convey patients and contacts to hospital and isolation, and to give more comfort to those who have to use it as it is the only means of transport available.
 - 136. 9,539 notices were served for the cleaning of compounds, etc.

SEWAGE DISPOSAL.

- 137. 3,561 notices were served in 1936 for the cleaning of cesspits. 75 per cent. of the cesspits were in an unsatisfactory condition, even when notices were served, the repairs and cleaning were not effected with alacrity. The hotels, a few firms and private individuals have installed private water closets connected with septic tanks.
- 138. The public latrines, 15 in number, are fitted with buckets and the contents are emptied at recognised spots on the foreshore; this method is at once primitive and undesirable it should be possible when an adequate water supply is available to have an almost universal water carriage system in Freetown with the effluent discharged at a point away from the immediate vicinity of the foreshore.

Inspection of Markets and Slaughterhouses.

- report on the cleanliness of the markets. Adjacent public latrines, dust-bins and the immediate environments. Some of the public markets are now provided with improved dust-bins; it is hoped to improve this type next year. Some of the markets like the King Jimmy, Water Street and Krootown Road markets require reconditioning and the Meat Market in Garrison Street fly-proofing and tiled.
- 140. Minor alterations and additions were made to the slaughterhouse and an extension of the meat inspection room is to be undertaken in 1937. Cold storage is necessary. Unsold meat at the close of the day is removed to the domiciles of the butchers.
- 141. The same procedure of examining cattle landing, their grazing grounds, careful inspection before slaughter and a final inspection of the carcase and viscera after slaughter is carried out daily.
- 142. Surprise visits are paid by the Medical Officer (Health) and the Sanitary Superintendent during slaughtering and it has been observed that the work is performed with efficiency.
- 143. During the year the following animals were slaughtered for human consumption:—

Bullocks	• • •		• • •		3,278
Sheep	• • •				184
Goats	• • •	• • •	• • •	• • •	399
Pigs					125

There has been a decrease as compared with 1935 and 1934; the figures for these years were:—

						1935.	1934.
Bullocks	• • •	•••		• • •	•••	$\frac{-}{4,274}$	$\frac{-}{4,460}$
Sheep	• • •	•••		• • •	• • •	395	437
Goats	• • •		• • •	• • •	• • •	569	599
Pigs	•••		• • •	• • •	• • •	136	139

The decrease in the number of animals slaughtered is due to smaller number arriving in Freetown owing to the French authorities having placed an embargo on cattle leaving French territory and the increased consumption in the mining areas.

144. The following carcases and livers were condemned after inspection:

O1 1			Pootion .
Cysticercus Bovis		 	16 bullocks
Angioma	 •••	 • • •	510 lbs.
Abscess	 • • •	 	198 lbs.
Fluke	 •••	 • • •	328 lbs.

FOODSTUFFS.

- 145. Below is a list of foodstuffs exposed for sale that were destroyed as being unfit for human consumption. Most of these articles were seized and a Magistrate's Order was obtained before destruction. A few of the firms asked the Health Branch to collect and destroy unwholesome food:—
 - 2 Smoked herrings
 - 2 Tins salmon
 - I Tin sardines
 - I Tin cocoa
 - 9 Barrels salt pork
 - 20 Cases lemon barley water
 - 10 Cases quinette lemon barley
 - I Case putrid meat
 - 2 Cases pears
 - 26 lb. cabin bread
 - 12 lb. potatoes
 - 4 Tins Guinea Gold cigarettes
 - 11 Tins cabbages
 - 12 Tins endive
 - 2 Tins (Tinappa) Pilchards
 - I Tin nutrix food
 - I Tin milk
- 146. Bakeries, Tanneries and Other Trades.—The premises were inspected regularly and nuisances reported and abated. Tanneries and dye-works are still carelessly supervised by their proprietors. Several specimens of mosquito larvæ were discovered from these sources.

PORT HEALTH WORK.

- 147. Freetown was not in quarantine during the year.
- 148. Cases of yellow fever and plague have been reported from neighbouring colonies. A small epidemic of smallpox was reported from the Gambia.

Vaccinations were performed as follows:-

 Deck passengers
 ...
 ...
 576

 Kroo boys
 ...
 ...
 2,262

149. The following were "passed through" the Disinfecting Station:

 Deck passengers
 ...
 ...
 837

 Kroo boys
 ...
 ...
 4,659

- 150. 825 ships entered the port during the year compared with 809 in 1935. The gross tonnage amounted to 2,485,750.
 - 151. The following deck passengers and Kroo boys embarked and disembarked:-

Embarked:	Deck passengers	 	1,204
	Kroo boys	 	16,753
Disembarked:	Deck passengers	 	1,731
	Kroo boys	 • • •	18,963

152. Vaccinations are performed on all deckers and Kroo boys who do not bear successful marks. Vaccination should be done at least nine days before embarking, but this is not always possible. All Kroo boys embarking from Freetown, all Kroo boys and deck passengers disembarking at Freetown are inspected on board and, if necessary, they and their effects are disinfected at the Disinfecting Station.

SCHOOL INSPECTION.

153. School Welfare work has not been undertaken as a routine, but necessary inspections have been carried out as the occasion demanded. The school latrines still leave much to be desired; close inspection is undertaken, and a gradual improvement noticed. A new scheme for servicing is being prepared. The accommodation and the degree of cleanliness in the latrines of the Prince of Wales School is satisfactory.

HEALTH WEEK.

154. The Annual Health and Baby Week was a great success; the full report submitted by Dr. Allan is attached.

RABIES.

- stray dogs, this gang had to be considerably increased during the last quarter of the year. 1,849 dogs were caught during the year and destroyed. Dogs that were vicious and suspected to have been infected with rabies were detained in the dog pound for observation.
- 156. Thirteen dogs and 7 cats were examined post mortem. Sections of the brain were made, and negri bodies were demonstrated in 13 of them (12 dogs and 1 cat).

MISCELLANEOUS.

- 157. A survey on overcrowding in one section in Freetown has been completed. A report has been forwarded depicting an undesirable conglomeration of slum houses with all its evil sequelæ.
- 158. Infant mortality is still high. A decrease for 1936 is recorded, but there is room for much greater improvement. Improper feeding, superstitious practices and ignorance are some of the difficulties with which authorities have to contend. Recent findings from autopsies show that unsuitable food is administered to infants only few months old.

HILL STATION.

159.	Larvæ found at Hill	Station during	the year	were a	is follo	ows:
	Culex	• • •			• • •	21
	Stegomyia				• • •	33
	Anopheles	• • •				Nil
	•					
						54

- 160. 120 trees were felled during the year. 30 trees contained holes and were attended to.
- 161. A committee with terms of reference to enquire into and advise on the stumping, re-grassing and planting of trees at Hill Station has been formed. A sum of £100 has been set aside for this purpose.
- These trees will be periodically examined by the Health Branch for any cracks and fissures and dealt with accordingly. Large bushing gangs were engaged throughout the rainy season. The permanent gang of scavengers carry out conservancy work, collect refuse, sweep the streets and drains, clean unoccupied compounds and pay attention to the falls of earth drains.
- satisfactorily and no nuisance has been observed. The incinerator is still in use. Non-consumable refuse is removed by lorry to the Cline Town Refuse Disposal Siding weekly for final disposal.

WILBERFORCE BARRACKS.

- 164. The scheme of rebuilding continues. A new Otway Pit has been constructed near the old one. New latrines have been planned and will be constructed in 1937.
- 165. An intensive mosquito campaign was carried out in the Barracks and Wilberforce. The number of larvæ found in the village of Wilberforce was high.

CITY COUNCIL.

- 166. It will be some time before it will be desirable for the City Council to take over the routine health work of this City; a report on these lines has been submitted.
- 167. The liaison which is being established is still slender, but at the Health Committee meetings held once monthly, elected Councillors have shown more interest in matters pertaining to health. Their suggestions are carefully and sympathetically considered and for the present this link is the only one which can be maintained between the Medical Officer (Health) and the City Rate-payers.
- 168. The Waterworks Engineer's report is attached. It is hoped that there will be a considerable increase in the annual water supply in the near future.

FREETOWN MUNICIPALITY BUILDING SCHEME.

169. Eight buildings were erected during the year at the cost of £3,161 17s. 1d. The building scheme has been held up temporarily for want of funds, but Government is now considering an application from the City Council for a further loan to enable the scheme to be continued.

E. H. TAYLOR-CUMMINGS,

Medical Officer (Health).

REPORT ON THE HEALTH AND BABY WEEK, 1936

by.

Dr. W. Allan, Medical Officer (Health).

I have the honour to submit the following account of the 1936 Health and Baby Week.

- 2. As in 1935, it was considered an advantage to arrange the week for the month of March, as there is little chance of rain interfering with the functions, and in that month the Education Department can best co-operate. Accordingly the week was arranged to commence on Sunday the 1st March, finishing on Saturday the 7th of March.
- 3. Organisation of this Health Week began in December with the drawing up of a suitable programme, and we decided that the programme drawn up for 1935, which was unavoidably upset by the occurrence of yellow fever cases, could not be improved upon. Our first step therefore, was to send a circular letter to churches of all denominations, asking the ministers and preachers to draw attention to the benefits of Health Week, and to deliver a special address to their congregations on Sunday the 1st March. Leaflets also were distributed to the members of the churches.
- 4. The Honourable Director of Education was next approached with a view to obtaining the assistance of teachers and managers. An Essay was arranged for scholars of different ages, and a new departure was made by offering prizes to school teachers for an Essay on "Ideas for improving health matters in Freetown." It was also arranged that on Monday the 2nd March, a demonstration of the methods of disinfection at the port should be given to all teachers and managers who cared to attend; about 100 appeared and all showed a lively interest.
- 5. On Tuesday the 3rd March, a special address to teachers was delivered by the Medical Officer (Health) and 150 teachers attended.
- 6. In previous years little or no attempt had been made to gain the active co-operation of citizens, and to remedy this, an invitation to co-operate was sent to the Rate-payers Association of the East, Central and West Wards of the City. The response was gratifying, and the West Ward Rate-payers held a special health meeting on the afternoon of the 2nd March at which a lecture was delivered by the Rev. S. B. A. Campbell on Hygiene and Sanitation, and at which the Medical Officer (Health) acted as Chairman. The meeting was well attended and great enthusiasm was shown. The Association also sent a bell-ringer around the town announcing Health and Baby Week to the people.
- 7. On Wednesday the 4th March, there was a mass meeting of citizens at the Wilberforce Memorial Hall, which was kindly loaned to us by the City Council for this occasion. The Honourable Director of Medical Services delivered an address on Health Week and we were successful in obtaining the services of the Honourable Colonial Secretary, Honourable J. A. Songo Davies, and Mr. T. E. Nelson-Williams as speakers. The meeting had been well advertised by means of posters, pamphlets, notices in the newspapers, letters to churches, the Education Department, and the Rate-payers Associations; the Muslim community was specially invited, and as a result of these efforts, the Hall was packed. A most successful meeting was held.

- 8. On Thursday there was a tour round the Connaught Hospital—special invitations were sent to prominent citizens, but unfortunately only four gentlemen and one lady were present. The matron was kind enough to assist by showing them round the various parts of the hospital, and an encouraging interest was shown by each person present.
- 9. Friday was set aside as a special Cleanliness Day throughout the town. The citizens were asked to have a special clean up of their house, their compound, and the general surrounds of the City, and our fleet of lorries worked overtime in clearing all the rubbish away. As usual, the day was well advertised by means of posters and pamphlets.
- During the week, Drs. Wright and Reffell were busily engaged in sorting out the best babies from each section to go forward to the competition proper. Rules had to be drawn up and printed, and different coloured cards issued to the mothers of the different sections.
- 11. On Saturday, the last day of the Health and Baby Week, the Baby Show was held at the Victoria Park.
- 12. A few details as to the various things necessary for the success of Baby Day will not be out of place.
- sandwiches, lemonade, biscuits, etc., and this year Mr. Shaw, Dresser, looked after the arrangements under the direction of the Medical Officer (Health). Nurses were loaned from the Princess Christian Mission Hospital and the Connaught Hospital. A squad of policemen to police the Park was arranged. Bunting was loaned from the Prince of Wales School. Palm thatching had to be put around the Park as a shade, and a palm barrie was a shelter for the babies while judging was proceeding.
- 14. Judges had to be arranged for, and I have to record our thanks to Drs. Renner, Pratt and Renner Dove, who so kindly gave up their time to spend $2\frac{1}{2}$ hours judging on a hot afternoon. The Band of the Royal West African Frontier Force was engaged by kind permission of the Officer Commanding.
- 15. By 4 p.m. the judging was finished and the prize-winning babies put into order. The essays from the schools having been examined during the week, the prizes to scholars are also awarded on Baby Show Day.
- 16. Invitations to attend the Baby Show are sent to all European residents and a fair number attended, including His Excellency, Lady Moore, the Honourable Colonial Secretary and Mrs. H. R. Blood, and the Honourable Director of Medical Services and Mrs. P. D. Oakley; Lady Moore presented the prizes to the winners, and thus ended a highly successful Health and Baby Week.

W. ALLAN,
Medical Officer (Health).

MEDICAL OFFICER (HEALTH)'S OFFICE, FREETOWN, SIERRA LEONE, 25th March, 1936.

- 170. During the year the Medical Officers' stations were increased by one and 17 Medical Officers, 40 Dispensers and 42 Sanitary Inspectors carry out the routine sanitary duties in the remainder of the Colony and in the Protectorate.
- 171. Sanitation carried under the Protectorate Mining Benefits Fund has proceeded in a satisfactory manner. In future years it is proposed to concentrate on the larger towns, and those places requiring immediate attention, so that a definite scheme of sanitation can be approved and carried out in preference to the haphazard erection of temporary sanitary structures in a great number of villages. In addition to these major operations under the Mining Benefits Fund, the erection of temporary sanitary structures in certain villages will be carried out by the Sanitary Inspectors.

(b) Epidemic Diseases.*

has shown further signs of decreasing in 1936. As in 1935, an undetected case of small-pox was introduced from the Protectorate and gave rise to a small localised outbreak in Freetown. This outbreak was circumscribed and quickly stamped out.

^{*} The disparity of the Medical and Health figures for the following diseases is explained partly by laxity of notification from out-stations, notification by private practitioners to the Health Office only, and partly by registration of causes of death (not medically certified) by lay informants.

173. A table is subjoined, showing the number of cases, deaths, and vaccinations for 1936. The figures in 1935 were 1,509, 259 and 44,309:—

		AREA.				Number of Cases Discovered.	Number of Deaths.	Number of Vaccinations.
OLONY DIST	RICT :					,		* V-
Freetown				• •		29	8	0.440
· Headquart	ers Jud	icial				26	0	8,448
Sherbro						4	ı	1,501
					• •	1		3,114
ROTECTORAT	E DIS	TRICTS	:					
		ern Pr	OVINCE:					
Port Loko						5		3,033
Karene						57	13	3,033 806
Bombali						39		1,736
Koinadugu	1					6		1,700
	Southi	ern Pro	OVINCE :					
Kailahun						57	6	1,951
Kenema						15	1	1,766
Во						1.4	_	3,657
Moyamba						103	16	2,115
Pujehun					3	9	1	1,764
Bonthe					1	27	5	1,704
					Ì	00.4		
						391	51	30,082

Of the 29 cases shown above against Freetown, 12 were imported.

(c) HELMINTHIC DISEASES.

174. Helminthic disease is widespread over the whole country of Sierra Leone and the figures for 1936 show an increase over those for 1935:—

Figure and the second s	ACTION OF THE PARTY AND PROPERTY OF THE PARTY OF THE PART		Action on the second of	Committee organic of highway	in Erromande Personalari		-	الملتب والمنافضة والمعافظة
		Disease	•				1935.	1936.
Ascariasis							5,394	6,580
Ankylostomiasis Schistosomiasis	• •	• •		• •			172	403
Tæniasis	• •	• •		• •			65	98
	• •	• •	• •	• •	• •	• •	353	243
					• •		000	243

2.—General Measures of Sanitation.

- 175. Night-soil Disposal.—No new measures have been introduced during 1936 and conditions remain the same as in 1935.
- 176. The introduction of water-borne sewage is being considered and a report will be submitted to Government in due course.
- 177. The present system of emptying the contents of the pans into the sea is primitive and objectionable. The bungalows of all Europeans are equipped with pails and these are serviced daily. At Hill Station the contents are emptied into fly-trapped Otway disposal pits.
- in the digging of latrines in the smaller villages which previously had no sanitation.
- 179. Refuse Disposal.—The scheme for refuse disposal in Freetown commenced in 1931 and continues to work satisfactorily. The accommodation at the Railway siding has been increased to enable the Health Branch to cope with greater quantities.
- 180. In the Protectorate the bush type incinerators are growing in favour and are proving satisfactory. A great many of these incinerators have been erected from the Mining Benefits Fund.

- 181. Drainage and other Sanitary Improvements.—The following extracts are taken from the current reports of the Public Works Department and the Waterworks Engineer:—
- 182. Maintenance, Repairs and Improvements of Trunk Roads, Bridges and Side Drains.—Provision in Estimates, £834. Concrete drains were laid to either side of Regent Road from the junction of Howe Street and Frederick Street down to corner of Kissy Road. This has effected a great improvement as formerly the drains were earth ditches.
- Provision in Estimates, £2,219. The following streets were made up, bitumen surfaced and provided with concrete side drains:—

Patton Street
Malta Street
Ambrose Street
Third Street.

- 184. Maintenance and Repairs of Sanitary Structures.—Provision in Estimates, £120. All dust-bins, latrines and urinals were overhauled and repaired during the year and, on the conclusion of the rains, were whitewashed and all steelwork coated with Tarkecem.
- Improvements.—Provision in Estimates, £300. General repairs were effected to all drains and outfalls throughout the year. New concrete drains were laid on the north side of Oxford Street between George and Charlotte Streets. A small street by Truscott Street discharging into Nicols Brook was converted into a masonry channel to obviate mosquito breeding and the flooding of adjoining houses. Major alteration was made to the culvert at the junction of Oxford and Howe Streets with the result that the flooding which formerly had constantly taken place at the point during the rains was entirely eradicated.
- 186. Maintenance of Hill Station Water Supply.—Provision in Estimates, £308. The repairs effected to the concrete reservoir in 1935 proved entirely satisfactory and during the past year this structure showed itself capable of holding water with no apparent leakage loss.
- 187. This combined with a prompt response by the Hill Station residents to an appeal to economise in the use of water at the end of the dry season, enabled the supply to remain uncurtailed throughout the year.
- to the almost level site the King Tom Police Barracks have suffered in the past from standing water and flooding during each rainy season. To obviate this a drainage scheme was put in hand during the year consisting of the laying out of four lines of concrete channels along the whole length of the barracks—a total of 887 yards channels. These drains discharge into the main outfall which was regarded and deepened to suit. The results during the past rainy season were very satisfactory.
- rsg. Canalization of Streams.—Provision in Estimates, £4,857. The year's programme consisted of canalization of Samba Water and the drainage of the upper section of Wellington Street. Samba Water which was formerly a small and evil smelling stream running from Tower Hill to Joaque Bridge has been converted to a brick-lined channel from Soldier Street downwards. The top section from Soldier Street to Fort Street has been constructed as a V section drain with a glazed earthenware invert arranged in steps to reduce the velocity of the water. The main channel is constructed of pressed down engineering bricks laid on a concrete foundation, the cross section of the channel being 3'0" × 1'10½" at its bottom end near Joaque Bridge and 2'4½" × 1'10½" between Soldier Street and the junction of Upper Waterloo Street and Waterloo Street. A subsidiary channel, also brick-lined was constructed from Upper Brook Street to Samba Water at the junction of Upper Waterloo Street and Waterloo Street.
- 190. The lower sections of the Samba Water Canal were completed before the advent of the rains and were found to function in a satisfactory manner.
- 191. The upper section of Wellington Street was drained at either side with ovoid concrete channels and the road made up to the uniform width and camber.
- Mr. M. S. Roberts, African Foreman of Works who, owing to shortage of staff was in sole charge of the work under the direction of the Provincial Engineer (Colony).

FREETOWN WATER SUPPLIES.

- 193. The maintenance of the works was carried on during the year and the prevention of the waste diligently attended.
- 194. Consumption.—The total consumption of water during the year amounted to 185,066,000 gallons or an average of 505,644 gallons per diem. Of this amount 5,731,000 gallons were supplied to shipping and 2,738,000 for other non-domestic purposes, leaving the purely domestic consumption at 176,597,000 gallons, an average daily consumption of 482,505 gallons, i.e., 8.77 gallons per head per diem for the population of 55,000
- 195. Public Standposts.—An extensive programme of erection of new public standposts was carried out this year, no fewer than 16 being erected as follows: 3 in the Central Ward, 6 in the Eastern and 7 in the Western. There are at present 260 public standposts.
- 196. Private Services.—Eighteen new private services were laid during the year. This brings the number up to 535.
- 197. Distributing Mains and Hydrants.—960 yards of 8", 7", and 6" leading mains were laid from the Service Reservoir on to the junction of Circular Road and Regent Road. This has improved the supply and the pressure on the mains at Regent Road, Circular Road, Upper Sackville Street and adjacent areas, and remedied the inconvenience usually experienced in these portions of the town during the dry season. Four fire hydrants were also installed in connexion with this main bringing up the number of hydrants in the City to 410.
- 198. Preservating Treatment of Steel Mains, Lumley Valley.—1,844 yards of 6½" steel supply mains in the Lumley Valley were scraped and treated with bitumastic solution and enamel. This should ward off corrosion and materially lengthen the life of the mains.
- 199. Shortage of Water Supply.—The periodic shortage of the supply during the dry season lasted this year from the 19th March to the 11th of May—54 days, during which the City was placed on a restricted supply.
- 200. Pumping Operations.—Pumping operations lasted from the 4th of March to the 5th of May, a period of 79 days.
- prevent the recurring shortage in the dry season has been engaging the attention of the water authority for some time past and Council, with the approval of Government and the Secretary of State for the Colonies has secured the services of Captain Wilson Brown, O.B.E., M.Inst., C.E., Honourable Director of Public Works as Consulting Engineer, to go thoroughly into the question and advise Council thereon. Captain Wilson Brown has begun preliminary investigations in the matter and there is every reason to hope that at no distant date these periodic shortage will become a thing of the past.

W. S. COLE, Waterworks Engineer.

- 202. Water supplies in the Protectorate are still obtained from streams running in the neighbourhood of villages. In the absence of streams reliance is placed in wells which are surface wells and usually devoid of a protecting cover or any sanitary method of raising the water.
- 203. During the year steps have been taken to put forward plans for a pipe-borne water supply in certain towns in the Protectorate. Elsewhere in the Protectorate improvement is taken place, the wells being dug in a proper manner and a requisite cover supplied in order to prevent them becoming contaminated.

SCHOOL HYGIENE.

- 204. In the absence of a School Medical Officer it is impossible to carry out the routine medical school inspection; but, where occasion demanded, local inspections have been carried out.
- 205. The elementary principles of hygiene are taught in the schools, both in the Colony and the Protectorate. It is satisfactory to report some improvement in the sanitary conditions of the schools.

LABOUR CONDITIONS.

206. Owing to the increased activity in the mining areas more and more labour is employed by these concerns, and at times it has been very difficult to maintain the necessary number of sanitary labourers. Mining camps are inspected by sanitary officers and their recommendations have in general been carried out.

HOUSING AND TOWN PLANNING.

- 207. In so far as Freetown is concerned, the conditions are similar to those reported in 1935, i.e., the Health Branch of the Medical Department does not enter into the building activities in Freetown which are carried out under the Freetown Improvement Ordinance in which no provision is made for control by the Medical Department.
- 208. In the Protectorate a more sensible arrangement exists in those areas which have been declared Health Areas under the Public Health (Protectorate) Ordinance, or Labour Health Areas under the Labour Ordinance, 1934. In all these cases, buildings and lay-outs are subject to approval of the Medical Department, and steady progress is being made.
- Officer acting in his capacity of Medical Officer (Health). Though this principle is slow in effecting any markedly noticeable improvement, it must, if steadily followed, inevitably lead to a gradual and permanent improvement in Protectorate towns.

FOOD IN RELATION TO HEALTH AND DISEASE.

- 210. This subject has already been fully dealt with in the report submitted by the Medical Officer (Health).
- 211. An electrical stunning device has been in operation during the year and has proved satisfactory.
 - B-Measures taken to spread the knowledge of Hygiene and Sanitation.
- 212. Instruction in the elementary principle of personal and public hygiene continues in the schools, while the practical effect of these principles is demonstrated by the Sanitary Inspectors, Health Visitors and Midwives in the daily execution of their duties.
- During Health Week propaganda is intensified by means of posters, pamphlets, handbills, lectures and health talks over the radio. The Baby Show was again a great success and was attended by a greater number of entrants than in any previous year.
- Officers' stations in the Protectorate. These Health Weeks were a very great success and it is now proposed to come into line with Freetown and make them an annual event.

C-TRAINING OF SANITARY PERSONNEL.

215. In the absence of any new recruits only refresher courses were given to the existing Sanitary Inspectors all of whom had already passed their examination. The practice of bringing into headquarters those Sanitary Inspectors who had been long in out-stations continued during the year with a consequent improvement in the general efficiency.

V—Port Health Work.

216. This has already been reported. The remarks under this head will be found in the appropriate section in the report of the Medical Officer (Health), Freetown.

VI-Maternity and Child Welfare.

- 217. Good progress has been made during the year under review in both Maternity and Child Welfare in spite of the fact that there has been no increase in accommodation. 607 cases were admitted to the Maternity Ward of the Connaught Hospital of which 402 gave birth, whereas in 1935 the figures were 554 and 379 respectively. There has been a small but, nevertheless, very welcome decrease in the figures for maternal mortality. The mortality rate per 1,000 live-births for the last three years are 15.6, 11.78 and 9.7 which show a steady and satisfactory decrease.
- 218. A new Maternity Training Centre is to be erected and it is hoped that this Hospital will be in full operation early in 1939. The proposed hospital is to be on two floors—Maternity on the top floor and the Ante and Post-Natal and Infant Clinics on the ground floor. Accommodation is to be provided for forty patients including four private wards. It is confidently hoped that, with the increased accommodation, far better results will be obtained in the future.

- The scheme of voluntary training for midwives, which was introduced two years ago, has made satisfactory progress. Two ladies have already obtained the local C.M.B. and six more are still in training, two of whom will be eligible to sit for the examination in June, 1937.
- 220. The figures for infantile mortality show a decrease of 17 per 1000 live-births, the largest decrease recorded for the last four years. During 1936 active steps were taken to educate the masses in the correct feeding of young children by means of pamphlets and broadcast talks. Health Visitors have also been teaching the correct method from door to door during their routine visits. All uncertified deaths of children under one vear have been strictly investigated, and, where any doubt existed, post mortem examinations carried out. The majority of the autopsics performed revealed that injudicious feeding had been the cause of death. In one case of a child of five months old the stomach was found to be distended with lumps of undigested Fu Fu and green peppers. interesting to note that, of the total number of children who died before they reached the age of one year, 74.5 per cent. died during the first three months of life. of teaching midwifery to illiterate women in the Protectorate has proceeded satisfactorily. One of the main objects of the Maternity Training Centre will be to train women from the Protectorate so that, when they have obtained the local C.M.B. they may return to their homes to work under the various Native Administrations.
- 221. Infant Clinics, also Ante and Post-Natal Clinics, have been inaugurated at every Medical Officer's station in the Protectorate during the year. The results have been very gratifying and the movement has been very popular with the Paramount Chiefs.
- Maternity and Child Welfare is also carried out at the various mission hospitals, and very good work has been done. The work of the Princess Christian Mission Hospital in this respect has continued in a very satisfactory manner. The authorities of this hospital have opened a clinic at Yongro on the Bullom Shore, under the care of Sister Strickland. This clinic fills a much needed want and the work is making good progress.

VII—Hospitals and Dispensaries.

- 223. (a) Connaught Hospital.—Although the actual number of new cases shows a slight decrease, the standard of the work carried out at this hospital has been most satisfactory. The surgical wards of the hospital have been well filled and there is a long waiting list for admission. The accommodation for maternity has been taxed to its very utmost and it is extremely doubtful whether any more cases could have been admitted. As has already been stated in the previous section, a new Maternity Hospital is to be erected and when completed the present maternity ward will be absorbed for general use in the hospital.
- 224. The cost per patient is $9\frac{1}{2}d$. per diem which compares with $7\frac{1}{4}d$. in 1935. This increase is due to the higher prices obtaining.
- out of Cate and it is to be replaced in 1937 by the most modern type.
- 226. The pathological work of the Colony is under the direction of Professor R. M. Gordon of the Sir Alfred Jones Research Laboratory who is Consulting Pathologist to the Sierra Leone Government. The report of the Pathologist incorporates all work performed in the Connaught Hospital Laboratory, and also that carried out by Professor Gordon and his assistants at the Sir Alfred Jones Research Laboratory.

227. The following table shows the figures of in-patients and maternity cases admitted to the Connaught Hospital during the past ten years:—

Year.	Year. Total Ma In-patients. In-patients.		Remarks.
1927 1928 1929 1930 1931 1932 1933 1934 1935 1936	2,046 1,945 2,228 2,383 2,335 2,628 2,268 2,464 2,672 2,549	301 311 353 363 357 344 382 501 554 607	New surgical block—two wards of four- teen beds and four cubicles. New children's ward—ten beds and cubicles.

228. The following table gives the comparative figures of out-patient attendances at the Connaught Hospital during th

0	grant and specific and the particular and the commangue mospital during the past ten years:—		Tos or our bank	one attendade	ics ar the com	naugur mospin	ai uning me	past ten years		
	1927.	1928.	1929.	1930.	1931.	1932.	1933.	1934.	1935.	1936.
:	14,780	13,864	14,265	14,276	10,583	12,019	17,313	17,155	18,635	18,193
Subsequent attendances	34,780	47,040	59,441	41,722	50.059	55,198	50,147	105,511	135,094	186,896
Total	49,560	60,904	73,706	55,998	60,642	67,217	67,460	122,666	153,729	155,089

- 229. (b) European Hospital.—The accommodation has been proved to be incapable of meeting the demands made upon it and on two occasions during the year it was not possible to admit any more cases. A new hospital is to be erected on the same site as the existing hospital, and it is hoped that it will be completed early in 1938. The accommodation will provide for 20 patients as against 14 of the present hospital.
 - 230. The cost per patient during 1936 was 5s. $6\frac{1}{2}d$. as against 6s. $2\frac{1}{4}d$. in 1935
- 231. During 1936, 173 patients were admitted as against 141 in 1935. Of these 173 cases, 53 were official and 120 non-official. The large increase is accounted for by the greater number of patients admitted from ships and the various mining enterprises. There has been only one death in the hospital during 1936. This death occurred in a non-official who was admitted *in extremis* suffering from non-operable carcinoma.
- 232. (c) Other Hospitals.—One more permanent Protectorate type hospital has been erected during the year. This hospital has been built at Port Loko in order to replace the old hospital which was in a dangerous condition of repair. There are now four Protectorate type hospitals in commission in the Protectorate, and this number will be increased to five in 1937 by the erection of a hospital at Kailahun. The figures of attendances are as follows:—

	Port Loko.	Makeni.	Во.	Moyamba.
In-patients	103	298	424	222
Out-patients: New cases Subsequent attendances	3,360 18,253	4,583 14,628	3,586 16,328	2,317 3,658

- 233. (d) Mission Hospitals Subsidised by Government.—There are four missions subsidised by Government. One operating in the Colony, namely, the Princess Christian Mission Hospital, and three in the Protectorate, namely, the American Wesleyan Mission, the United Brethren in Christ Mission, and the Methodist Mission. These are stationed respectively at Kamakwie, in the Northern Province, and Jaiama and Segbwema, in the Southern Province.
- 234. The work of these missions has increased in scope and they are carrying out very good work as evidenced by the table showing the number of patients treated at the various hospitals. In addition, all these missions performed very good work in maternity and child welfare, and their clinics are increasing year by year:—

Hospital.	-		Out-patients.	In-patients.	Subsequent Attendances.
Princess Christian Mission		 	359	2,493	6,139
Methodist Mission			611	5,574	15,386
American Wesleyan Mission		 	257	5,057	16,469
United Brethren in Christ Mission		 	54	8,821	11,530

235. (e) Government Dispensaries.—There are 8 dispensaries established in the Colony and 14 in the Protectorate. Two new dispensaries were opened in the Protectorate in 1936—one at Mabonto, in the new Tonkolili District, and the other at Koidu in the Kono District. The scope of these dispensaries, which are under the care of senior dispensers, has been increased during the year and all dispensers in charge of these dispensaries have been trained to administer intramuscular injections of B.S.P.T. in the treatment of yaws. This procedure has been much appreciated. These dispensaries are inspected frequently by the Medical Officers of the districts.

VIII-Meteorology.

- 237. Rainfall.—The rainfall for the year 1936 at Freetown (Tower Hill) was 144.40 inches as compared with 199.05 inches in 1935.
- 238. August was the heaviest month with 27.45 inches and the highest rainfall in any one day was 4.50 inches on the 20th of November.
- 239. The lowest temperature recorded at the Tower Hill Observatory was 67 degrees in the shade on the 30th June.
 - 240. The highest temperature recorded was 95 degrees in the shade on the 21st March.

- 241. The highest minimum was 79 degrees on the 24th of February and on the 8th of April:
- 242. The lowest maximum was 74 degrees on the 10th of August.
- 243. The rainfall per month is as follows:—

January	• •		: .	nil
February	* *		6 6	0.02
March	• •			1.03
April	• •	• •		o·81
May	• •	• •		17.87
June		• •		18.28
July	• •	* *	• •	25.03
August ·		• •		27 · 45
September				26.43
October		• •		10.09
November	• •			10.91
December		• •		0.48
	Total	• •		144 · 40

244. Hill Station reported a rainfall of 169·09 inches as compared with 184·54 inches in 1935. The heaviest month was August. The maximum precipitation in any one day was 7·82 inches on 10th September.

IX-Scientific.

CONNAUGHT HOSPITAL LABORATORY.

Annual Report—1936.

245. Dr. E. A. Renner, Pathologist (Sierra Leone) was in charge of the Laboratory at the Connaught Hospital throughout the year until 10th November, when Dr. Athol J. Johnson was the Medical Officer-in-charge of the laboratory. As in the previous year the staffs of the Sir Alfred Lewis Jones Research Laboratory and of the Connaught Hospital Laboratory have worked as a Pathological Unit.

I—BACTERIOLOGICAL EXAMINATIONS.

246. During the year, 121 cultures were made from various sources. These may be classified as follows:—

(i) Cultures of Faeces for Organisms of the Enteric and Dysentery Groups:

	No pathogeni	c orgai	nism :	isolated			European. 6	African. 17	Total. 23
	Bact. flexneri	O						4	4
	Bact. alkaliger	ies						1	1
	Bact. morgani						1		1
	Bact. typhosun							1	1
	Salmonella gro	oup (u:	nclass	sified)			1		1
	,	Total	• •		. •		8	23	31
(ii)	Blood cultures						European.	African.	Total.
	Sterile						8	21	29
	B. typhosum.	•		• •	• •	• •	1	2	3
		Total	* *	• •	• •		9	23	32

(:::N		European.	African.	Total.
(111)	Cultures from boils, ganglions, joints, pleural fluids, etc. Positive 7; only staphylococci isolated.	10	10	20
(iv)	Cerebro-spinal fluid cultures: All proved sterile.	1	3	4
(v)	Urine cultures: Only one was sterile, the remainder yielded growths of staphylococci and, or, B. coli.	10	1	11
(vi)	Throat swabs for culture: C. diphtheriae was obtained in the case of one European, and S. haemolyticus in an African	8	6	14
(vii)	Cultures for the presence of fungi: Only one case was sent for examination. It proved negative.	1	-	1
(viii)	Water analyses: (These included mineral waters).	-	**************************************	8
(ix)	Dark ground examination for the presence of T. pallidum: Negative Positive As is shewn, 8 of these gave positive results.	7 4	47 4	54 8
(x)	Dark ground examination of urine for the presence of L. icterohaemorrhagiae: Two urines examined with negative results.			
(xi)	Vaccines: Three vaccines, two of staphylococci and one of streptococci, were prepared during the year.			

II—SEROLOGICAL EXAMINATIONS.

247. Kahn Tests.—723 tests were performed during the year with the following results:—

				European.	African.	Total.
Positive				9	347	356
Doubtful				2	21	23
Negative				44	300	344
7	`otal				000	700
1	otai	• •	• •	55	668	723

- 248. Widals.—The total number of agglutinations carried out for the enteric group was 107, these being performed on 73 cases. B. typhosum infection was diagnosed in 13 cases (3 Europeans and 10 Africans). In addition, as can be seen from the bacteriological examinations, B. typhosum was isolated from the blood or fæces of 1 European and 3 Africans. The total number of B. typhosum infection observed during the period was therefore 17; no paratyphoid infection was recorded. This is an increase of 6 over the previous year.
- 249. Weil-Felix.—The total number of agglutinations carried out was 97 on 67 individuals (9 Europeans and 58 Africans). One European and two Africans gave positive results, the European case being almost certainly a laboratory infection. Two more Africans gave a doubtful positive, the observation period being insufficient for diagnosis. The three cases of tropical typhus which were diagnosed were all of the OX19 type. During the previous year 30 tests were carried out on 22 individuals, yielding one positive result and one doubtful reaction.

III—HISTOLOGICAL EXAMINATIONS.

250. A number of tissue, varying from one to six per case, were submitted from 113 sources during the period under review. Twenty-eight of these were in the nature of new growths and their site and character are given below. All but one were Africans; the European case has been marked wth an asterisk.

					Malignan	T.
	Site.		Non- malignant.	Doubtfully malignant.	Carcinoma.	Sarcoma.
Skin		••	1 Papilloma 1 Fibroma	*Capillary Hæmangioma	4 Epitheliomas	1 Malanotic Sarcoma
Subcutaneo muscle	ous tissue		2 Fibromas	_	1 Adenocarcinoma	5 Sarcoma
Liver	• •		_		1 Alveolar Carcinoma	
Bone		• •	1 Epulis	1 Adamantinoma	1 Myeloma	_
Breast			2 Fibro adenoma	_	1 Carcinoma simplex	_
Ovary			2 Retention cysts			_
Uterus		••		1 Hydatiform mole	1 Epidermal Carcinoma	
Parotid		• •		_	1 Mixed Carcinoma	
Total	• •	O rd	9	3	10	. 6

^{251.} In addition 34 tissues removed at operation were submitted for histological report; 26 of these were found to be granulomata (3 syphylitic, or yaws; 5 T.B.; 2 due to schistosomiasis, and 16 due to pyogenic infection), while in the remainder the cause was doubtful. The remaining specimens submitted were mainly from the autopsies which follow.

IV—AUTOPSIES.

252.		s were pe	rformed o	during th	ie ye	ar.			
	Accidents	• • •	• • •	•••	• • •				8
	Drowning		• • •	• • •		2			
	Multiple fracture		• • •			2			
	Fracture of base	of skull	< • •	• • •		I			
	Electric shock	• • •	• • •	• • •		I			
	Rupture of liver	and splee	n	• • •	• • •	ī			
	Rupture of spleen		• • •	• • •		I			
	T 1 "		•••	• • •					8
	Broncho-pneumonia		• • •	• • •			• • •		5
	Pericarditis						• • •		2
	Rupture of aortic ane		•••		• • •				5
	Aneurysm of aorta an				•••			• • •	J
	Cardiac failure	d myocar	diai dege	cheración	• • •		• • •	• • •	
	to the second se	• • •	• • •	• • •	• • •		• • •	• • •	Ι
	Aortic incompetence	• • •	• • •	• • •	• • •		• • •		Ι
	Sub-acute nephritis	• • •	• • •	• • •	• • •		• • •		2
	Uræmia	• • •	•••	• • •	• • •		• • /	• • •	2
	Acute nephritis			•••				• • •	I

Tetanus						2
Fatty degeneration of liver	,	unknown)	* • •	* * *	• • •	Σ.
Cirrhosis of liver			•••	• • •	• • •	T T
Carcinoma of liver			• • •		• • •	2
Abcess of liver	• • •	* * *	* * *		• • •	2
Typhoid fever	• • •	•••	* * *	* * *	• • •	1
Tuberculosis		• • •				I
Pulmonary	• • •	* * *			• • •	12
Spine	• • •	• • •	8			
Meningitis	• • •	• • •	I			
Enteritis	• • •	• • •	I			
	• • •		2			
Infantile convulsion	• • •	• • •	• • •	• • •		1
Atelectasis of the lungs	• • •	• • •	• • •			2
Cerebral malaria	• • •	• • •		• • •		I
Avitaminosis		• • •				I
Duodenal ulcer and hæmor	rhage					1
Ante-partum hæmorrhage		•••				I
Ruptured uterus		• • •				I
Acute gastro-enteritis						3
Appendicitis						5
Strangulated inguinal hernia	ı					3
Intestinal obstruction—twiste	ed mese	entery				I
Toxemia, following ulcer						I
Pyosalphynx						I
Sub-dural hæmorrhage					• • •	Τ
Cerebellar hæmorrhage						ī
Cause unknown						I
The Diodition			NT A CINE O	210	• • •	•

V-BIOCHEMICAL EXAMINATIONS.

253. Eighteen examinations were carried out.

	E	uropean.	African.	Total.
Urea concentration test			4	4
Identification of composition	of a		·	
tablet? poison	٠		-	I
Analysis of bottled fruit juice				2
Nature of ureteral calculus			I	I
Nature of hairs from brush				I
Glucose tolerance test			I	I
Van den bergh's reaction	• • •	I	7	8

VI—VETERINARY.

254. These, for the most part consisted of autopsies on animals suspected of rabies. Twenty brains from animals (seven cats and thirteen dogs) were sectioned. Negri bodies were demonstrated in thirteen of these animals (one cat and twelve dogs).

VII—EXAMINATION OF ANIMALS FOR PLAGUE.

255. Total number of rats trapped during 1936 was 6,892. The total number of animals dissected and examined for plague during the year was 4,644 and consisted of the following species:—

R. rattus	• • •		• • •		• • •	3,573
R. norvegicus			• • •			759
M. musculus			• • •		• • •	287
Crocidura occide	entalis	• • •	• • •		• • •	25
		Total	• • •	* * *		4,644

256. Suspicious cases were cultured and, if necessary, animal inoculations carried out. B. pestis was not encountered during the examination. For the purpose of the present report, the following figures may be quoted from the rat investigation which will form the subject of a special report. A total of 712 live rats were examined for ecto-parasites, these yielded 2,133 fleas of which some 83.5 per cent. were X. brasiliensis and 16.5 per cent. X. cheopis. The flea-rate per rat for the year averaged three.

VIII—RABIES.

- 257. As stated above negri bodies were demonstrated in thirteen animals. In view of the presence of rabies all dogs which had either bitten persons or which appeared to be behaving in any peculiar manner, were brought to the laboratory by the police for inspection. Sixty-two animals were examined, and of these animals, post-mortems were held on twenty-one which had died or which appeared ill and were killed.
- 258. In June a supply of anti-rabic vaccine was obtained and owners of dogs and cats were advised to have their animals inoculated against rabies and 117 animals were inoculated. This cannot be regarded as a satisfactory response by the public.

IX—GENERAL PATHOLOGICAL EXAMINATIONS.

259. Various small collections of insects, mainly mosquitoes, were received and identified.

X-MISCELLANEOUS EXAMINATIONS, MOSTLY SMEARS.

- (1) Skin scrapings for fungi:—4 Europeans, 1 African. Four showed presence of mycelia, species not identified.
- (2) Throat swabs:—2 Europeans, 8 Africans. All negative for K.L.B. Two Africans showed T. vincenti.
- (3) Stained smears from penile sore:—21 Africans, 1 European. One European and 19 Africans—negative. One African—Ducrey's bacillius. One African—Diptheroids.
- (4) Smears for general bacteriology:—Mostly from boils, abscesses, etc. Six Africans and tour Europeans. Staphylococci and streptococci only noted.
 - (5) C.S.F.:—7 all Africans. 6—negative; 1—N. meningitidis present.
 - (6) Fluid from joint:—1 African. Streptococci present.
 - (7) Pleural effusions, empyemas, etc.:—6 All Africans. Nothing significant.
 - (8) Gland puncture fluid:—I European. No organism found.
- (9) Smears from cattle for B. anthracis:—5. Four were negative and the remaining one showed the presence of bacilli which closely resembled B. anthracis.
 - (10) Fluid from a nodule showed the presence of embryo of O. volulus.

TABLE I.
EXAMINATION OF BLOOD FILMS FOR PARASITES.

		No. of Examinations.	Sub-tertian.	Benign tertian.	Quartan.	Sub-tertian and Quartan.	Benign tertian and Quartan,	Benign tertian and Sub-tertian.	Trypanosomes.	Microfilaria.	Negative.
Europeans .		356	61	2	7	4	0	1	0	0	281
Africans .	••	3,105	875	1	229	127	1	0	1	0	1,871
Total .		3,461	936	3	236	131	1	1	1	. 0	2,152

TABLE II. EXAMINATION OF FÆCES.

	No. of Examinations.	Cestode.	Ankylostomes.	Ascaris.	T. trichuris.	Strongyloids.	E. hystolytica free	E. hystolytica cysts.	E. coli free	E. coli cysts.	Giardia cysts.	S. mansoni.	Dicrocoelium.	Negative.
Europeans	99	3	7	0	2	0	1	0	0	0	0	0	1	85
Africans	1,436	22	328	229	125	116	43	17	9	36	16	2	0	493
Total	1,535	25	335	229	127	116	44	17	9	36	16	2	1	578

TABLE III.

EXAMINATION OF URINE.

Europeans		* * *	• • •	• • •	118
Africans	• • •	•••			585
			tert a		
			Total		703

^{260.} These examinations were routine tests for abnormal constitutents and on occasion for nature of the deposit.

TABLE IV.
BLOOD EXAMINATIONS.

		No. of Examinations.	Total erythrocyte counts.	Total leucocyte counts.	Differential leucocyte counts.	Haemoglobin investigations.	Special blood investigations.	Grouping of blood Donor.	Bleeding time.
Europeans	• • •	26	8	11	18	19	0	1	0
Africans	• • •	68	23	29	23	29	1	6	1
Total	•••	94	31	40	41	48	1	7	1

TABLE V. SPUTUM EXAMINATIONS.

	_	-	Number of Examinations.	Acid fast Bacilli.	Negative.
Europeans	• • •	• •	8	0	8
Africans		• • •	329	79	250
Total	•••	• • •	337	79	258

TABLE VI.

URETHRAL AND PROSTATE SMEARS FOR GONOCOCCI.

			Number of Examinations.	Positive.	Negative.
Europeans	•••	• • •	26	13	13
Africans	•••	• • •	315	155	160
Total			341	168	173

TABLE VII.

SMEARS FOR B. LEPRÆ.

		-		Number of Examinations.	Positive.	Negative.
Europeans				()	0	0
Africans	• • •	• • •	•••	18	3	15
	Total	•••		18	3	15

ATHOL J. JOHNSON,

Medical Officer-in-charge, Connaught Hospital Laboratory.

CONNAUGHT HOSPITAL, FREETOWN, 18th February, 1937.

Tables.

I—STAFF. MEDICAL STAFF

	. Medic.	al Staff.		
0.6.	Name.	Absent	n Leave	Remarks.
Office.	Name.	From	То	TOOMATAS,
Director of Medical Services	P. D. Oakley			
Senior Specialist	Q. Stewart	_	_	
Senior Medical Officer	E. S. Walls C. B. Jennings	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	15 5 36 6 11 36	
Medical Officer	A. W. Lewis W. Allan H. R. F. Tweedy	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
,, ,,	H. Peaston A. Cathcart	$\frac{-}{3}$ 36	$\begin{bmatrix} 28 & 2 & 36 \\ 22 & 5 & 36 \end{bmatrix}$	
,, ,,	A. J. Johnson W. M. Quin W. R. Williams	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1 5 36	
,,	C. A. McComiskey			
Senior Medical Officer (Sierra Leone) Pathologist (Sierra	E. J. Wright	13 5 36	16 10 36	
Leone) Medical Officer (Sierra Leone)	E. A. Renner M. C. F. Easmon E. H. T. Cummings	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{bmatrix} - \\ 2 & 6 & 36 \end{bmatrix}$	M.O. (H)
,,	W. B. Hughes W. F. O. Taylor M. A. S. Margai	 	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
	HEAL	TH STAFF.		
Assistant Director of Medical Services				
(Health) Senior Health Officer Medical Officer (Health)	J. A. A. Duncan, M.C. Vacant Vacant		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
Chief Sanitary Superintendent	G. V. Herd	3 6 36	18 12 36	
anitary Superintendent	A. E. Wilkinson P. Osment	$\begin{array}{ c c c c c c } 26 & 8 & 36 \\ \hline & - & \end{array}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
	Nireal	NG STAFF.		
Senior Nursing Sister	Miss A. E. Macmaster	1 7 36	21 11 36	
Nursing Sister	Miss G. M. Spencer Miss L. D. S. McPetrie Miss N. M. Brown Miss H. F. W. Young	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	

Miss H. F. W. Young Miss M. C. Jennings

Miss Stewart

Miss Atkins

• • •

f..

• • •

36

Transferred to Nigeria

17-10-36.

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3

26 19

36

36

25

Office.	Name.		Absent on Leave.					Remarks.	
				From		То			Itemarks.
Chief Dispenser Assistant Chief Dispenser Chief Store-keeper First Class Dispenser """""""""""""""""""""""""""""""""""	M. O. Frazer K. A. King P. J. John P. Q. A John M. P. Neville I. B. Doherty T. M. T. Scott J. C. May S. B. Williams E. W. B. Cole G. C. Heroe E. F. Smith		10	64	36	9 20	9 6 2 10	36 36	Retired on Pension on 15-9-36. Appointed Chief Dispenser on 15-9-36. Appointed Chief Store-keeper on 15-9-36.
Second Class Dispensers Third Class Dispensers Laboratory Assistant Male Nurses and Apprentices Female Nurses and Probationers Midwives	E. F. Smith W. D. Hedd Ten Eighteen C. H. R. Greene Thirty-three Twenty-five Four	•••	17 14 4	7 9 3	36 36 36	23	10 11 4	36 36 36	-

AFRICAN HEALTH SUBORDINATE STAFF.

Senior Health Visitor Health Visitor Second Grade Sanitary Inspector Third Grade Sanitary Inspector Therefore Sanitary Inspector	Miss O. T. Metzger Mrs. V. S. Macfoy Miss A. Macauley W. E. J. Corkson D. H. Raschid Z. Grey Coker M. A. Mammah	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
Fourth Grade Sanitary Inspectors Fifth Grade Sanitary Inspectors and Learners	Eight Thirty		

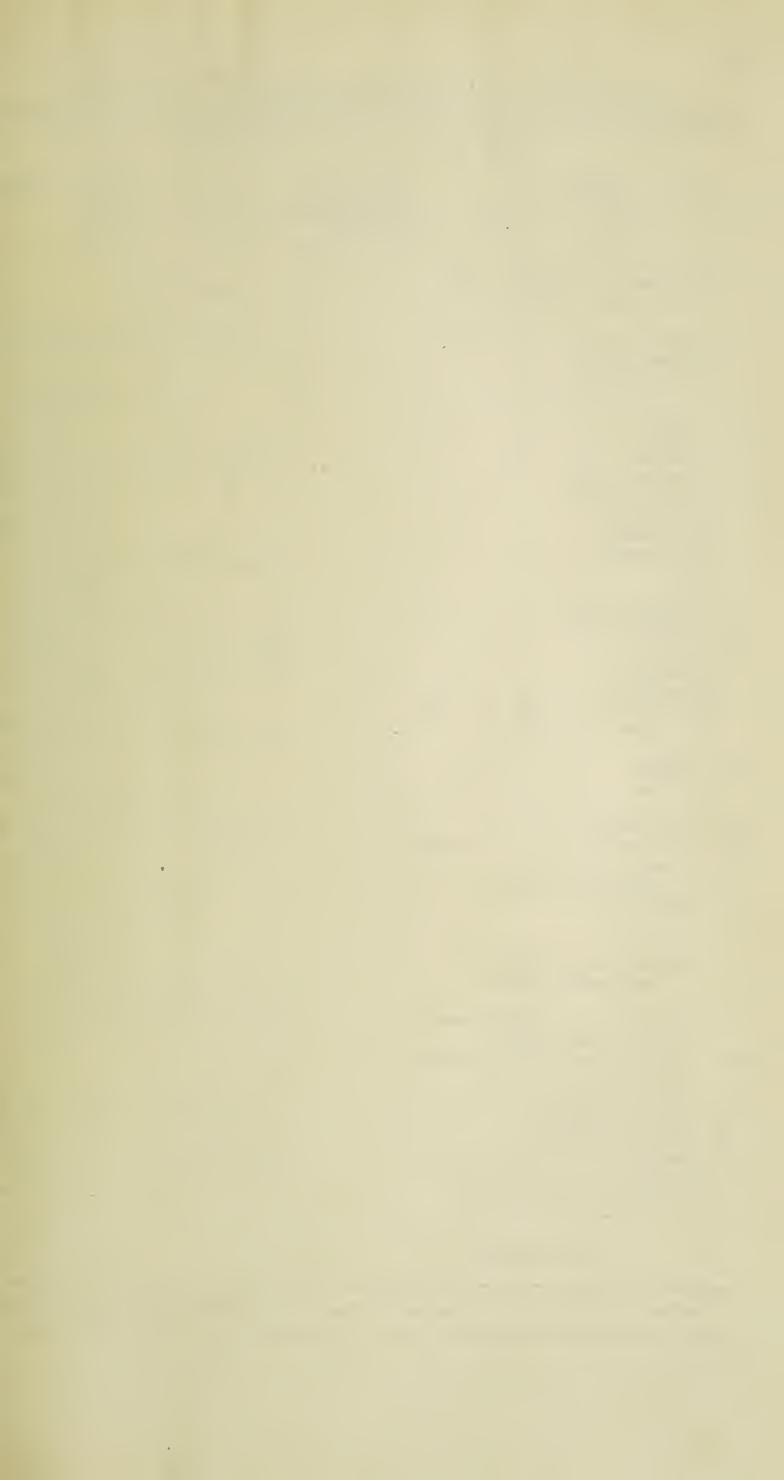
MEDICAL AND HEALTH CLERICAL STAFF.

II—FINANCE.

1936 ESTIMATES—EXPENDITURE.

MEDICAL.

T) 1 1			MEDI	CAL.			
Personal I	Emoluments:						£
	European	• • •		•••	• • •	• • •	14,618
	African	* * *	•••	•••			20,739
	Allowances	• • •	•••			•••	801
				Total	•••		36,158
Other Cho	arges:						£
	Medical supplies	and hos	pital eq	uipment	• • •		4,419
	Diets, provisions,	etc.	•••	•••			3,445
	Contribution to va	rious ass	sociation	is and su	bsidies to		2,700
					•••		911
	Transport, freight				•••		680
	Other items	1 1	•••	•••	* * *		
	Purchase of new	ambulan	ce	•••	tool a	• • •	430
					Total		12,585
			Hı	EALTH.			£
Personal I	Emoluments : European			• • •	•••	• • •	3,892
	African			• • •	•••	• • •	5,016
	Labour	• • •		• • •		* * *	5,750
					Total		14,658
Other Cha	_						£
	Refuse disposal	• • •	• • •	• • •	• • •	• • •	761
	Preventive measur	res		•••	•••	•••	964
	Transport		• • •	• • •	•••	* * *	1,093
	Other items	•••		• • •	•••	• • •	113
	Purchase of two l	orries			•••	• • •	562
					Total		3,493
			Recei	PTS.			£
	Hospital fees						1,070
	Lunatic/ Hospital	fees	***		• • •		189
	Sale of medicines			• • •			1,220
					Total		2,479
					•		:



III—RETURN OF DISEASES AND DEATHS—EUROPEAN.

		IN-P	ATIENT	rs.		
Diseases.	Remaining in Hospital at end of 1935.	Total Admission.	Total Cases treated.	Deaths.	Remaining in Hospital at end of 1936.	Out- patients.
I—EPIDEMIC, ENDEMIC, AND INFECTIOUS DISEASES.						
1. Enteric Group:			ļ			
(a) Typhoid fever		1	1		1	1
(b) Paratyphoid A		• • •		• • •		• • •
2. Typhus 5. Malaria :		1	1	• • •		
(a) Tertian		ı	1		1	7
(b) Quartan		1 2	$\overline{2}$			5
(c) Aestivo-autumnal	2	30	32		1	33
(d) Cachexia	• • •	6 m m				• • •
(e) Unclassified		18	18	• • •	3	29
(f) Blackwater	1	1	2	• • •	• • •	• • •
7 Maralas					_	
7. Measles 9. Whooping cough		1	1	• • •	• • •	• • •
10 Diphthoria	• • •	1	1	• • •	• • •	
16. Dysentery:		1	1	• • •	• • •	• • •
(a) Amebic \dots \dots	2	$_2$	4			2
(b) Bacillary		$\frac{1}{2}$	$\frac{1}{2}$			
(c) Undefined or due to other						
causes		1	1			2
2 2 1 22						
38. Syphilis:						
(a) Primary	• • •	• • •	• • •	• • •	• • •	3
39. Soft chancre		$_2$	$_2$			2
40. A.—Gonorrhœa and its complica-	* * *	2	2	• • •	•••	4
tions complete	• • •	1	1		1	9
C.—Gonorrhœal arthritis		î	î			
41. Septicæmia					• • •	1
•						
II—GENERAL DISEASES NOT MENTIONED ABOVE.						
44. Cancer or other malignant tumours						
of the stomach or liver		1	1	1		
48. Cancer or other malignant tumours						
of the skin	• • •	2	2		• • •	• • •
50. Tumours, non-malignant	• • •	• • •	• • •		• • •	1
51. Acute rheumatism	• • •			• • •	• • •	1
52. Chronic rheumatism 57. Diabetes (not including insipidus)	• • •	$\frac{2}{1}$	$\frac{2}{1}$	• • •	1	11
57. Diabetes (not including insipidus) 58. Anæmia:	• • •	1	1		1	
(b) Other anæmias and chlorosis	• • •	2	2	• • •	•••	8
Carried forward	5	74	79	1	8	115
						110

The form shows in the main the arrangement of diseases in the International Nomenclature, 1921 Edition To save space the unimportant diseases of any class can be grouped in their places as "Other Diseases" of the class

			IN-PA	ATIENT	S.		
	Diseases.	Remaining in Hospital at end of 1935.	Total Admission.	Total Cases treated.	Deaths.	Remaining in Hospital at end of 1936.	Out- patients.
	Brought forward	5	74	79	1	8	115
II–	GENERAL DISEASES NOT MENTIONED ABOVE—continued.				ı		
66. 69.	Aleoholism Other general diseases	•••	1	1 	•••	• • •	2
	-Affections of the Nervous tem and Organs of the Senses. Apoplexy:	! 					
75.	(u) Hæmorrhage Paralysis:		1	1	• • •	• • •	• • •
	(a) Hemiplegia		1	1	• • •	• • •	• • •
77. 82.	Other forms of mental alienation B.—Neuritis	• • •	1	1	• • •	• • •	1
02.	C.—Neurasthenia	• • •	6	6	• • •	1	4
84.	Other affections of the nervons						-
	system, such as paralysis agitans	• • •	• • •		• • •	• • •	2
85.	Affections of the Organs of Vision:						_
	(a) Diseases of the eye		• • •	•••	• • •	• • •	$\frac{5}{3}$
	(b) Conjunctivitis (e) Other affections of the eye					• • •	20
86.	Affections of the ear or mastoid sinus						19
	IV—Affections of the Circulatory System.				9.00		
88.	Acute endocarditis, or myocarditis		1	1			
90.	Other diseases of the heart		1	1	• • •	• • •	1
	Mitral	• • •	1	1		1	
91.	Diseases of the Arteries:						1
93.	(b) Arterio-sclerosis Diseases of the Veins:	• • •	• • •		•••	•••	1
<i>V</i> ·).	Hæmorrhoids						1
	Phlebitis	• • •	1	1		• • •	• • •
94.	Diseases of the Lymphatic System:						0
	Lymphangitis	• • •	$rac{1}{2}$	$\begin{bmatrix} 1 \\ 2 \end{bmatrix}$	• • •	• • •	$egin{array}{c} 3 \ 2 \end{array}$
96.	Lymphadenitis, bubo (non-specific) Other affections of the circulatory		4	4	• • •		4
00.	system						1
	V—Affections of the Respiratory System.						
97.	Diseases of the Nasal Passages:				Ì		
	Coryza			• • •			13
4) 0	Other diseases of the nasal passages			• • •		• • •	3
98.	Affections of the Larynx:						4
99.	Laryngitis Bronchitis :	• • •					1
	(a) Acute	• • •	2	2		• • •	12
	(b) Chronic		1	1	• • •	• • •	•••
105.	Asthma		2	$\frac{2}{1}$	• • •	• • •	3
107.	Other affections of the lungs		1	1	• • •	• • •	• • •
	Carried forward	5	98	103	1	10	215
			Marie Control Statement Statement				

	Diseases.			Remaining in Hospital at end of 1935.	Total Admission.	Total Cases treated.	Deaths.	Remaining in Hospital at end of 1936.	Out- patients.
	Brought forward	rd	• • •	5	98	103	1	10	215
VI-	-Diseases of the System.	DIGEST	IVE						
108.	A—Diseases of Teet Caries, pyorrhœa, et		ms : 		2	2	• • •	• • •	20
	B.—Other affections of Stomatitis	of the me	outh:	• • •		• • •			2
109.	Affections of the Tonsils:	Pharyn	x or						
	Tonsilitis Pharyngitis	• • •	• • •		4 2	4 2	•••	•••	4 7
111.	A.—Ulcer of the sto B.—Ulcer of the du		• • •	•••	2	2 1		• • •	•••
112.	Other Affections of to Gastritis Dyspepsia, etc.		• • •	• • • •	•••			•••	2
114.	Diarrhœa and Enteri	tis:	•••	•••	•••	• • •		•••	21
	Two years and over Colitis	• • •	• • •	• • •	3	3	•••		18
115. 116.	Ankylostomiasis Diseases due to Int Parasites:	estinal	•••	• • •	1	1			1
٠	(a) Cestoda (tænia)	•••	• • •			1	•••	• • •	1
117. 118.	Appendicitis Hernia	• • •		1	7	7 1	1	• • •	2
119.	A.—Affections of fistula, etc	the	Anus,	• • •	1	1		• • •	2
	B.—Other affectio Intestines: Constipation		the			1			,
123.	Biliary calculus	• • •	• • •	• • •		1		• • •	1
124.	Other Affections of t				•)	n			
	Cholecystitis Jaundice	•••	• • •	• • •	1 3	2 1 3	• • •	1	· · · · · · · · · · · · · · · · · · ·
127.	Other affections of system	the dige	estive				•••		4
	Carried forwa	ırd	• • •	6	130	136	2	11	306

				IN-]	PATIEN	TS.		
					·			
	Diseases.		Remaining in Hospital at end of 1935.	Total	Total		ning pita of	Out- patients.
			Hos enc enc 1937	Admission.	Cases	Deaths.	nair Fos _I end	provious,
			Ren in]		treated.		Remaini in Hospi at end c	
	Brought forward		6	130	136	2	11	306
*7						,	• •	,,,,,
	II—DISEASES OF THE GENI							
URI	NARY SYSTEM (NON-VENERE	AL).						
131.	Other Affections of the Kidn	nevs ·						
	Pyelitis, etc			2	2		1	1
132.	Urinary calculus	• • •		1	1	• • •	1	1
133.	Diseases of the Bladder:							
1.0.4	Cystitis			2	2	• • • •	• • •	1
134.	Diseases of the Urethra:							
135.	(b) Other Diseases of the Prostate:	• • •	• • •	1	1	• • •	• • •	2
100,	Prostatitis							0
		• • •		• • •	• • •	• • •	• • •	3
136.	Diseases (non-venereal) of	the						
	Genital Organs of Man:							
	Epididymitis	• • •		1	1			
	Orchitis Hydrocele	• • •	• • •	1	1	• • •		• • •
	Illoon of nonia	• • •	* * *	1	1	• • •	• • •	• • •
	0.1	$\frac{\dots}{\text{Male}}$	• • •	* * *	•••	• • •	• • •	2
	Genital Organs			1	1			4
	· ·							•
141.	A.—Metritis		•••	1	1		• • •	• • •
	B.—Other Affections of	the						
	Female Genital Organs Amenorrhæa	• • •	• • •	1	1			
	···	• • •	•••	1	1	• • •	• • •	2
	VIII—PUERPERAL STATE.							
149	D A . 13- 4 C							
143.	B—Accidents of pregnancy: (a) Abortion			1				
	(a) Abortion (b) Ectopic gestation	• • •	• • •	$\frac{1}{2}$	2	• • •	• • •	• • •
	(o) Botopie graduion		•••	4	2	* * 7	• • •	* * *
IX	-Affections of the Ski	N						
	AND CELLULAR TISSUES.							
152.	Boil		1	3	3			1.7
	Carbuncle	• • •	• • •	$\frac{3}{2}$	$\frac{3}{2}$			17
153.	Cellulitis	• • •	•••	10	10	• • •		5
154.	A.—Tinea		• • •		• • •			9
1 < ~	B.—Scabies	• • •	• • •			• • •		1
155. (b)	Other diseases of the skin	• • •	* * *	1	1	•••	• • •	21
$\begin{pmatrix} o \\ c \end{pmatrix}$	Urticaria Eczema	•••	• • •	•••		• • •	• • •	$\frac{3}{6}$
(d)	Herpes							$rac{6}{2}$
(g)	Myiasis		• • •	• • •			• • •	1
(h)	Chigoes	• • •						3
(j)	Ulcer	• • •		1	1	• • •		11
	Carried forward		6	162	168	2	12	4.10
	Carried for ward	• • •		102	100	2	12	402
			I					

			IN-PATIENTS.					
	Diseases.		Remaining in Hospital at end of 1935.	Total Admission.	Total Cases treated.	Deaths.	Remaining in Hospital at end of 1936.	Out- patients.
	Brought forward	• • •	6	162	168	2	12	402
:	—Diseases of Bones an Organs of Locomotion ther than Tuberculous							
156.	Diseases of Bones: Osteitis							1
157.	Diseases of Joints: Arthritis	• • •	,	2	2	• • •		1
	Synovitis	• • •	1		1		v • •	1
158.	Other diseases of bones or o of locomotion	organs	• • •		• • •			8
X	IV—Affections produce by External Causes.	3D						
175.	Food Poisoning: Botulism			2	2			1
176.	Attacks of Poisonous Anima				_	•••	• • •	6
184.	Wounds (by cutting or sta		• • •				• • •	
185.	instruments) Wounds (by fall)	• • •	• • •	$\frac{1}{2}$	$\frac{1}{2}$		• • •	$\begin{vmatrix} 4 \\ 4 \end{vmatrix}$
186. 189.	Wounds (in mines or quarrie Injuries inflicted by animals,	bites,		•••		• • •	• • •	1
194.	kicks, etc Exposure to Heat:	• • •	•••	•••	• • •			7
201.	Heat stroke		• • •	1	l		1	1
	B.—Sprain C .—Fracture			4	4	• • •		$\frac{12}{3}$
202.	Other external injuries	• • •		3	3		•••	20
. 2	XV—ILL-DEFINED DISEASES	3.						
	Pyrexia	• • •	• • •	3	3	•••	2	5 3
	Undiagnosed	• • •	* * *	• • •	• • •	•••	•••	3
				1				
	Total	• • •	7	180	187	2	15	474

			IN-P	ATIENT	rs.		
	Diseases.	Remaining in Hospital at end of 1935.	Total Admission.	Total Cases treated.	Deaths.	Remaining in Hospital at end of 1936.	Out- patients.
	I—EPIDEMIC, ENDEMIC AND INFECTIOUS DISEASES.						
1. 2. 5.	Enteric Group: (a) Typhoid fever (b) Paratyphoid A (d) Type not defined Typhus Malaria:	•••	12 1 1 2	12 1 1 2	4 1	•••	3 1
·/.	(a) Tertian (b) Quartan (c) Aestivo-autumnal (d) Cachexia (e) Unclassified	1	6 51 178 182	6 52 178 188		 2 3	$ \begin{array}{r} 45 \\ 147 \\ 568 \\ 258 \\ 6,362 \end{array} $
6. 7.	(f) Blackwater Smallpox Alastrim Measles		62 31	$\begin{array}{c c} & 1 \\ 62 \\ \dots \\ 31 \end{array}$	12	11	$\begin{matrix} 8\\129\\1\\302\end{matrix}$
9. 12. 13. 16.	Whooping cough Miliary fever Mumps Dysentery:		6	6	•••	•••	74 1 7
18.	(a) Amæbic (b) Bacillary (c) Undefined or due to other causes Yellow fever	1	67 3 15	70 3 16	3 2 2	2 1	188 5 282
20. 21. 22. 23.	Leprosy	12	2 1 	14	2	11	181 2 1
25.	Other Epidemic Diseases: (a) Rubeola (German measles) (b) Varicella (chicken-pox)		77	81	• • •		2 73
28.	(g) Yaws (h) Trypanosomiasis Rabies		46 2	53		8	8,149
29. 30. 31. 32.	Tetanus	1	27 42	28 43	19 20	··· 2	15 1 188
33.	Tuberculosis of the intestines of peritoneum		2 6	6	3	1	2
34. 35. 36.	Tuberculosis of the vertebral column Tuberculosis of bones and joints Tuberculosis of other Organs: (a) Skin or subcutaneous tissue	•••	6	6	•••	1	9
	(Lupus) (c) Lymphatic system (e) Other organs	1	1 1 1	2 1 1	•••	• • •	6 2
	Carried forward	37	833	870	74	46	17,019

The form shows in the main the arrangement of diseases in the International Nomenclature, 1921 Edition. To save space the unimportant diseases of any class can be grouped in their places as "Other Diseases" of the class.

		IN-PATIENTS.					
	Diseases.	Remaining in Hospital at end of 1935.	Total Admission	Total Cases treated.	Deaths.	Remaining in Hospital at end of 1936.	Out- patients.
	Brought forward	37	833	872	74	46	17,019
I	I—EPIDEMIC, ENDEMIC AND NEECTIOUS DISEASES—continued.						
37.	Tuberculosis disseminated:						1
38.	(b) Chronic Syphilis:	l	• • •	1	1		• • •
	(a) Primary (b) Secondary	2 1	$\frac{1}{3}$	$\frac{3}{4}$	• • •		$\begin{array}{c} 30 \\ 131 \end{array}$
	(c) Tertiary	5	19	24	2	3	513 5
	(d) Hereditary (e) Period not indicated	1	13	14	1		42
39. 40.	Soft chancre	 1	10 50	10 51	• • •	$\frac{\cdots}{2}$	$\begin{array}{c} 151 \\ 2,426 \end{array}$
	B.—Gonorrheal ophthalmia	• • •	7 16	7 16	• • •		$\begin{array}{c} 36 \\ 195 \end{array}$
	D.—Granuloma venereum		6	6			8
41. 42.	Septicæmia Other infectious diseases		11	11	8	• • •	2 8
	II—GENERAL DISEASES NOT MENTIONED ABOVE.			•			
43.	of the buccal cavity		•••	• • •		• • •	. 2
44.	Cancer or other malignant tumours of the stomach or liver		3	3	1		4
45.	~						
46.	rectum Cancer or other malignant tumours	• • •	3	3	3	• • •	2
47.	of the female genital organs	• • •	3	3	• • •		•••
	of the breast	• • •	1	1	1	• • •	2
48.	Cancer or other malignant tumours of the skin	1	2	3		1	7
49.	Cancer or other malignant tumours of organs not specified	1	10	11	1	3	1
50. 51.	Tumours, non-malignant Acute rheumatism	4	58	62		2	215
52.	Chronic rheumatism!	8	52	60	4	11	10,598
53. 55.	Scurvy (including Barlow's disease) Beri-beri		5	5	2	1	1 5
56. 57.	Rickets Diabetes (not including insipidus)		2	2	• • •	•••	10
			* * *	• • •	•••		7
58.	Anæmia: (a) Pernicious	• • •	• • •				1
	(b) Other anæmias and chlorosis Avitaminosis	6	18 52	18 58	7 12	1 4	408 911
	Carried forward	68	1,178	1,246	117	75	32,741

	IN-PATIENTS.						
	Diseases.	Remaining in Hospital at end of 1935.	Total Admission.	Total Cases treated.	Deaths.	Remaining in Hospita at end of 1936.	Out- patients.
	Brought forward	68	1,178	1,246	117	75	32,741
II-	-GENERAL DISEASES NOT MEN-				1		,
60.	TIONED ABOVE—continued. Diseases of the Thyroid Gland:				ı		
	(a) Exophthalmic goitre	• • •	6	6			18
	(b) Other diseases of the thyroid gland, myxædema		4	4		• • •	22
64.	Diseases of the spleen	1	6	7	2	2	234
65.	Leukæmia: (b) Hodgkin's disease						2
66.	Alcoholism	• • •	• • •				1
69.	Other general diseases Auto-intoxication		17	17	• • •	2	222 33
	Hæmophilia		• • •				1
	Diabetes insipidus	• • •	1	1		• • •	3
III-	-Affections of the Nervous					,	
S	System and Organs of the Senses.						
70.	Encephalitis (not including en-						
71	cephalitis lethargica)					• •	2
11.	Meningitis (not including tuber- culous meningitis or cerebro-spinal			1			
7.0	meningitis)		3	3	1	1	1.0
72. 73.	Locomotor ataxia Other affections of the spinal cord		- 3	$\frac{4}{6}$	1		12
74.	Apoplexy:		45			-	4
	(a) Hæmorrhage (b) Embolism		3	3	3		1
	(c) Thrombosis		1	1	• • •		2
75.	Paralysis: (a) Hemiplegia	8	32	40	9	9	96
	(b) Other paralysis	9	16	25	$\frac{1}{2}$	5	59
76. 77.	General paralysis of the insance Other forms of mental alienation		38	50	9	15	2 13
78.	Epilepsy Epilepsy		10	10	1	1	36
80.	Infantile convulsions		3	3		• • •	11
81. 82.			3	3			$\frac{1}{2}$
	B.—Neuritis		5	5	1	1	195
84.	C.—Neurasthenia Other affections of the nervous		3	3		1	39
	system, such as paralysis agitans	3 1	1	2			136
85.	Affections of the Organs of Vision (a) Diseases of the eye	1	23	31	2	6	384
	(b) Conjunctivitis	•	41	41		3	1,031
	(c) Trachoma (d) Tumours of the eye		$\frac{2}{2}$	$\frac{2}{2}$			$\begin{array}{c} 48 \\ 10 \end{array}$
	(e) Other affections of the eye		24	24		2	612
86.		3	15	18	4 * *	1	1,112
	sinus		10				1,112
	Carried forward	111	1,447	1,558	148	124	37,084
	Carried forward	111	1,111	1,000	110		01,001
-							

				IN-PATIENTS.					
Diseases.			Remaining in Hospital at end of 1935.	Total Admission.	Total Cases treated.	Deaths.	Remaining in Hospital at end of 1936.	Out- patients.	
	Brought	forward	• • •	111	1,447	1,558	148	124	37,084
		OF THE	Ε						
87.	Pericarditis	• • •			1	1		• • •	1
89.	Angina pectoris				1	1			1
90.	Other diseases of the	e heart			5	5	1	• • •	74
	(a) Valvular			2	30	32	2		44
	Mitral	• • •		1	18	19	4	2	132
	Aortic		• • •		3	3	2	•••	19
	Tricuspid	• • •					• • •	• • •	1
	Pulmonary	• • ¢						• • •	2
	(b) Myocarditis	• • •	• • •	1	10	11	2	• • •	33
91.				1		ຄ			10
	(a) Aneurism (b) Arterio-sclerosis	* * *	• • •	$\frac{\cdots}{2}$	2	$\frac{2}{3}$	• • •	• • •	10 17
92.		mbosis	(non-	2	1	J	• • •		1 /
JA.	cerebral)	711100010	(11011-						1
93.	Diseases of the Vein	s :	•••	• • •	• • •	• • •	• • •	• • •	•
00.	Hæmorrhoids			1	8	9			- 92
	Varicose veins								10
	Phlebitis	• • •		• • •	1	1			4
94.	Diseases of the Lym	phatic sy	stem:						
	Lymphangitis				• • •				58
	Lymphadenitis, bubo			4	54	58		1	602
95.				• • •	5	5		• • •	3
96.		the circu	latory						
	system	• • •	• • •	• • •	2	2	• • •	• • •	30
	V—AFFECTIONS RESPIRATORY S								
97.	Diseases of the N	asal Pas	ssages						
	Adenoids		• • • •		2	2			21
	Polypus							• • •	7
	Rhinitis	• • •			1	1			35
	Coryza		• • •		2	2		• • •	1,131
0.6	Other diseases of the		ssages	* * *		• • •	• • •	• • •	13
98.	<i></i>				7	7			0.0
99.	Laryngitis Brouchitis:	• • •	• • •		1	1	* * *	•••	98
33.	(a) Acute			4	116	120		3	7,208
	(b) Chronic	• • •		$\frac{1}{2}$	41	43		2	5,498
100.					55	55	10	1	50
301.	Pneumonia:					0 ()	- 0	•	0.0
	(a) Lobar			4	41	45	13	4	81
	(b) Unclassified			2	73	75	16	2	70
102.	V ' L e'			1	23	24	3	1	167
103.	Congestion of the lur				1	1	1		
104.	Gangrene of the lung	gs	• • •		1	1	1		4
105.	Asthma		• • •	•••	7	7	1		233
	Carried fo	rward	• • •	135	1,952	2,087	204	140	52,834

				IN-P.	ATIENT	15.		
	Diseases.		Remaining in Hospital at end of 1935.	Total Admission.	Total Cases treated	Deaths.	Remaining in Hospital at end of 1936.	Outpatients.
	Brought forward	• • •	135	1,952	2,087	204	140	52,834
V-	-Affections of the Respiratory System—continued.		1					
106. 107.		• • •	•••	2	2	• • •	• • •	1 255
	V1—Diseases of the Digestive System.							
108.	A.—Diseases of Teeth or Gum Caries, pyorrhæa, etc. B.—Other Affections of the Mout		1	14	15	1		1,879
		• • •		4	4	1	• . •	384
109.	Affections of the Pharynx	or	· · · ·	5	ő	1	* * *	86
	Tonsils: Tonsilitis	• • •	I • • •	21	21			470
110	Pharyngitis	• • •	• • •	1	1			97
110. 111.	D Illean of the duadennin	• • •	• • •	1 3	$\frac{1}{3}$	• • •	• • •	16
110							,	
112.	Other Affections of the Stomach Gastritis	:		3	3			497
113.	D			28	28	2	1	4,371
	Under two years	• • •		9	9	2		416
114.	Diarrhæa and Enteritis: Two years and over		. 1	87	88	11	1	1,182
	Colitis			3	3	1 1	1	18
115.	Ankylostomiasis	• • •	3	36	39	1		364
116.	Diseases due to Intestinal Parasite	es:						
	(a) Cestoda (tænia) (c) Nematoda (other than ank		i	3	3		1	23()
	1 4 5			1	gener	• • •		7
	Ascaris	• • •		50	50	1	1	6,530
	Twialing	•••		1	1	• • •		1
	0, 1	• • •		• • •				5 4
	(c) Other parasites	•••		• • •	• • • •	• • • •	• • •	5
	(f) Unclassified		* * *	2	2		• • •	7
117.	Appendicitis	• • •	• • •	22	22	3	1	10
118.	Hernia		16	385	401	14	15	701
119.	A.—Affections of the anus, fistu etc	la,	3	24	27	2	~	
	B.—Other affections of the intesting	ies	1	7	8	2		93 10
1.0.0	Constipation			12	12	1		9,687
122.	Cirrhosis of the Liver:			9	9	- • •	2	ĩ
**	Carried forward	• • •	160	2,685	2,845	246	169	80,167

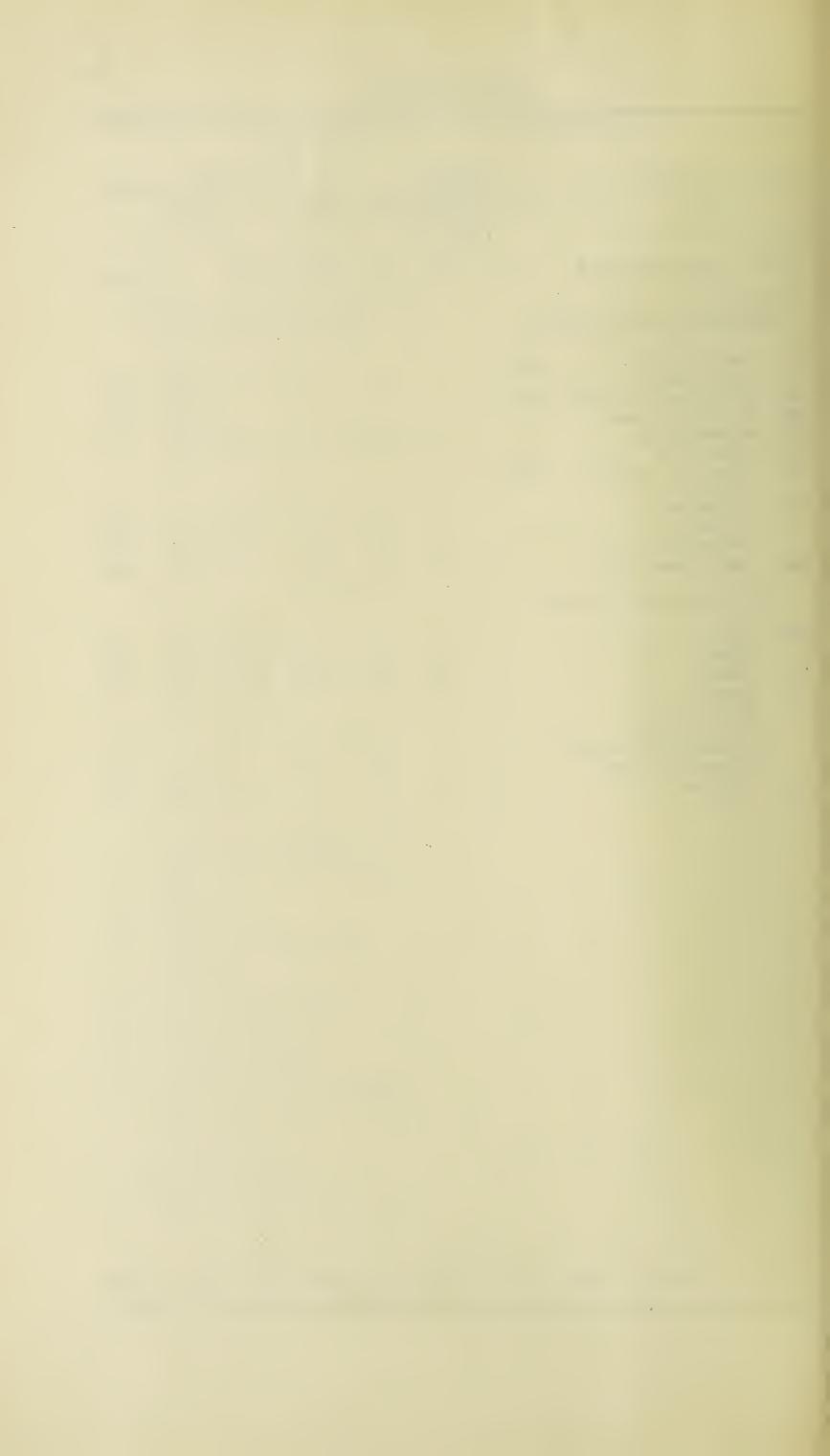
	IN-PATIE	NTS.
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			110-1	. 23. 1 1.7.11	3, 3, 7		
	Diseases	Remaining in Hospital at end of 1935.	Total Admission.	Total Cases (reated)	Deaths.	Remaining in Hospital at end of 1936.	Out- patients
	Brought forward	. 160	2,685	2,845	246	169	80,167
	VI—Diseases of the						
Ι	DIGESTIVE SYSTEM—continued.						
124.	Other affections of the liver		4	4	2		6
	Abscess		9	9	l	1	6
	Hepatitis		26	26	1		98
	Cholecystitis		3	3		1	3
1.0.0	Jaundice		9	9	1	• • •	43
$\frac{126}{127}$.	Peritonitis (of unknown cause)		3	3	2	• • •	3
121.	Other affections of the digestive system		16	16	1		814
		1	10	* 0	A		OIT
	I—DISEASES OF THE GENITO- NARY SYSTEM (NON-VENEREAL).		!				
128.	Acute nephritis	. 1	10	11	1		94
129.	Chronic	. 2	39	41	, 9	3	188
130.	A.—Chyluria	•			• • •		1
131.	B.—Schistosomiasis Other affections of the Kidneys:	•	15	15	2	• • •	83
191.	Prolitic oto		11	11	1		64
132.	Urinary calculus		2	$\frac{1}{2}$			11
133.	Diseases of the Bladder:	}	_	_	•••	• • •	
	Cystitis	. 2	12	14	1		152
134.	Diseases of the Urethra:	1					
		. 1	79	80	5	5	145
135.	(b) Other Diseases of the Prostate:	•	15	15	2	2	159
too.	Hypertrophy	• ()	1	1			1
	Prostatitis		$\frac{1}{2}$	$\frac{1}{2}$		1	5
136.	Diseases (non-venereal) of the Genital Organs of Man:					*	
	Epididymitis		9	9			60
	Orchitis	_	29	30	p • • •	2	218
	Hydrocele Ulcer of penis	4)	$\frac{106}{38}$	113		$\frac{4}{2}$	266
	Other diseases of the male		1) ()	40		2	354
	genital organs		40	40	6		101
137.	Cysts or other con-malignan					• • • • • • • • • • • • • • • • • • • •	
	tumours of the ovaries		б	6			24
138.	Salpingitis		22	23	• • •	• • •	80
139.	Abscess of the pelvis				• • • •		1
140.	Uterine tunnours (non-malignant Uterine hæmorrhage (non-		33	35	3	2	67
110.	puerperal)		1	1			81
141.	A.—Metritis		1	1		• • •	147
	B.—Other affections of the female			1			111
	genital organs	1	33	34			505
	Displacements of uterus		2	2		• • •	9
	Amenorrhæa Dvsmenorrhæa		2	2		• • •	1,421
	T 1		1	l	• • •		424
	Leucorrhæa	• • •	1	1		• • •	77
	Carried forward	180	3,265	3,445	284	192	85,878

And the second s			IN-P.	ATIEN'I	'S.		
Diseases.		Remaining in Hospital at end of 1935.	Total Admission.	Total Cases treated.	Deaths.	Remaining in Hospital at end of 1936.	Out- patients.
Brought for	ward	180	3,265	3,445	284	192	85,878
VII—DISEASES OF THE URINARY SYSTEM (NON-VE continued.							
142. Diseases of the branch puerperal): Mastitis	reast (non-		6	6			76
Abscess of breast			2	$\frac{0}{2}$	• • •		36
VIII-PUERPERAL S	TATE.						
143. A.—Normal labour B.—Accidents of pregr		9	434	443	• • •	10	4
(a) Abortion		1	34	35	 1	2	51
(b) Ectopic gestation (c) Other accidents of		4	$\frac{2}{140}$	$\begin{array}{c} 2 \\ 144 \end{array}$		4	157
145. Other accidents of pa146. Puerperal septicæmia		• • •	8 3	8 3	5 1	•••	33 5
147. Phlegmasia dolens	• • • • • • • • • • • • • • • • • • • •	• • •	1	1	• • •		• • •
148. Puerperal eclampsia	• • •	•••	1	1	• • •		• • •
149. Sequelæ of labour150. Puerperal affections of	f the Breast		$\frac{6}{1}$	$\frac{6}{1}$			3 4
IX—Affections of t	HE SKIN SSUES.					: !	
151. Gangrene	• • •	1	1 9	$\frac{2}{9}$	1	• • •	$\begin{array}{c} 1 \\ 467 \end{array}$
152. Boil Carbuncle	• • • • • • •	1	9	10	2	1	38
153. Abscess	•••	6	127	133	1	3	641
Whitlow Cellulitis	• • • • • • • • • • • • • • • • • • • •	3 3	$\begin{array}{c} 9 \\ 76 \end{array}$	12 79		$\frac{1}{3}$	284 281
154. A.—Tinea	• • • • • • • •					• • • •	490
B.—Scabies		• • •	3	3		• • •	$\begin{array}{c} 1,738 \\ 921 \end{array}$
155. Other diseases of the (a) Erythema	skin		5	5		•••	24
(b) Urticaria	•••	• • •	2	2			58
(c) Eczema	• • • • • • • • • • • • • • • • • • • •	• • •	1 4	1	• • •	1	$\begin{array}{c c} 320 \\ 45 \end{array}$
(d) Herpes (e) Psoriasis			1 4	4			56
(f) Elephantiasis	•••	14	113	127	2	4	301
(g) Myiasis (h) Chigoes	•••	• • •			• • •	• • •	$\frac{1}{20}$
(h) Chigoes (j) Ulcer	• • • • • • • • • • • • • • • • • • • •	37	207	244	12	34	6,032
X—Diseases of Bones and of Locomotion (other Tuberculous)	ER THAN						
156. Diseases of Bones: Osteitis		1	21	22	1	2	332
Carried for	ward	260	4,491	4,751	310	257	98,297

	Tille i die einstellen Sammer Gelek einstellen Seiner, Willem Wille auf der Gelek der	BAR CAN'I A TH		1N-P	ATIENT	rs.		
	Diseases.		Remaining in Hospital at end of 1935.	Total Admission.	Total Cases treated.	Deaths.	Remaining in Hospital at end of 1936.	Out- patients.
	Brought forward	• • •	260	4,491	4,751	310	257	98,297
	Diseases of Bones and Organise Locomotion (other than Tuberculous)—continued.	ANS						
157.	Diseases of Joints: Arthritis		5	72	77	2	4	1,726
158.	Synovitis Other diseases of bones or org	ans	6	32	32	1	1	211 765
	XI-MALFORMATIONS.	• • •			***	1		100
159.	Malformations		1		1			5
	Hydrocephalus Hypospadias		• • •	2	2	•••	2	1
7	XII—Diseases of Infancy.					!		
160. 161.	Congenital debility Premature birth			1 1	1 1	1		
162. 163.	Other affections of infancy Infant neglect (infants of the			5	5	1		14
VI	months or over) II—Affections of Old Age		• • •	2	2	1		5
)	!					
164.	0	• • •	* * *	4	4	1	1	89
171.	•	ing						
175.	instruments Food Poisoning:	• • •		1	1			• • •
176.	Botulism Attacks of Poisonous Animals:	• • •		1	1		•••	1
	Snake bite Insect bite	• • •		7	7	2		27 57
177. 178.	Other accidental poisonings				• • •			14
179.	Burns (by fire) Burns (other than by fire)	• •	3	19	22 13	4	1	$\begin{array}{c} 115 \\ 149 \end{array}$
180.	Suffocation (accidental)			• • •			• • •	1
182. 183.	Drowning (accidental) Wounds (by firearms, war except		• • •	1	1	• • • •		• • •
184.	Wounds (by cutting or stabb	ea) ing		11	11	2	• • •	14
105	instruments)	• • • •	3	49	52	1	3	1,148
185. 186.	Wounds (by fall) Wounds (in mines or quarries)	• • •		28	30	i i	2	624
187.	Wounds (by machinery)		* * •	1	1			$\frac{2}{27}$
188.	Wounds (crushing, e.g. railwaccidents, etc.)	vay	1	2	3		• • •	61
	Carried forward		284	4,778	5,062	333	272	103,354
Liberty-Line, applications				-,		*****	and I shall	100,004

	Diseases.	Remaining in Hospital at end of 1935.	Total Admission.	Total Cases treated.	Deaths.	Remaining in Hospital at end of 1936.	Out- patients.
	Brought forward	284	4,778	5,062	333	272	103,354
XI I	EXTERNAL CAUSES—continued.						
189. 190. 192. 195. 196. 198. 201. 202.	Injuries inflicted by animals bites, kicks, etc. Wounds inflicted on active service B.—Hunger or thirst Lightning stroke Electric shock Murder by cutting or stabbing instruments A.—Dislocation B.—Sprain C.—Fracture Other external injuries XV—ILL-DEFINED DISEASES. Ascites Œdema Asthenia Shock Hyper-pyrexia B.—Malingering Pyrexia of uncertain origin No appreciable diseases Undiagnosed	9 7	29 2 1 9 10 97 175 13 15 21 1 7 75 37	30 2 1 9 10 106 182 14 15 31 1 7 75 40	4 1 10 5 11 1 1	2 4 3 3 2	323 298 4 1 1 60 514 125 4,434 39 111 864 2 6 6 1 143 237
	Total	315	5,270	5,585	375	295	110,524



22.09

9.3

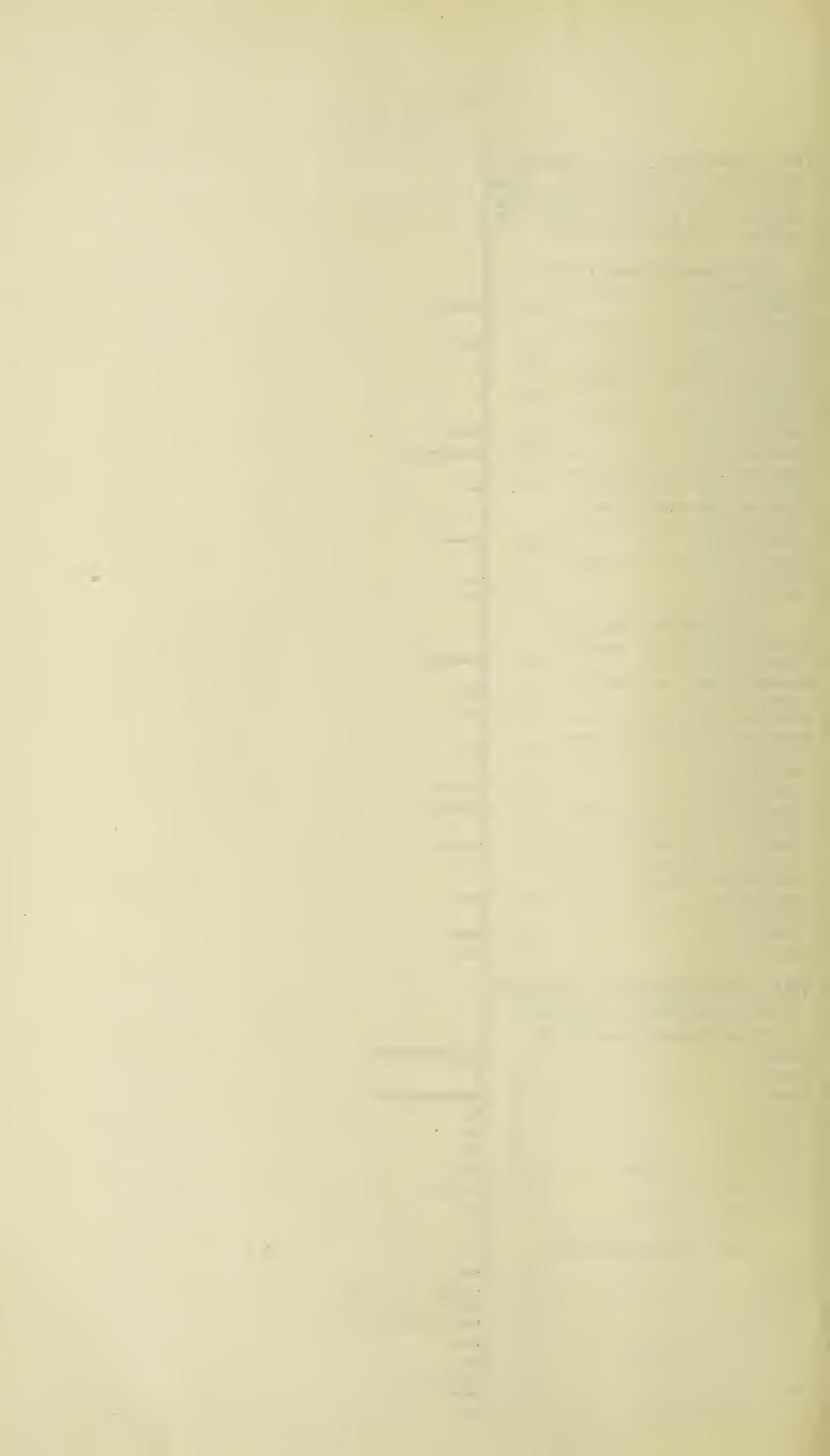
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Tetanus

Tetanus Septicaemia

Other infectious diseases



A-REPORT OF THE SENIOR SPECIALIST FOR THE YEAR 1936.

I have set out below figures for operative work for the year 1936. The numbers are somewhat less than those for 1935; this is due to a decrease in the minor operations performed by Medical Officers in the out-patient department. The operations performed in the main theatre are actually more than in 1935. It has not been found possible yet to provide a Ward X-ray for fractures or a modern genito-urinary department both of which are necessities in a modern hospital, and should be installed as soon as financial conditions permit. I append a report of interesting cases seen during the year.

Percentage of de	eaths	• • •				1'4	
Number of opera						^ 4	
1926						20	
1927		• • •	• • •	• • •	S2 *	29	
1928	•••	•••	• • •	•••	• • •	257	
1929	•••	•••	• • •	•••	• • •	755	
1930	•••	• • •	• • •	•••	• • •	761	
1931		• • •	• • •	* * *	• • •	1,566	
1932	• • • • • • • • • • • • • • • • • • • •	***	• • •	• • •	• • •	1,410 1,913	
1933				• • •		1,877	
1934	* * * * * * * * *		• • •		• • •	2,281	
1935	• • • • • • • • • • • • • • • • • • • •		• • •			2,258	
1936	***	• • •	• • •	• • •	• • •	2,100	
		ANTEC	MITTIMIA			-,	
Spinal			THETICS.				
Ethyl cl	loride	• • •	• • •	• • •	• • •	501	
Chlorofo		•••	• • •	• • •	• • •	146	
Local		•••	• • •	• • •	• • •	180	
Intraver		•••	• • •	• • •	• • •	192	
Rectal		•••	• • •		• • •	9	
	•••	•••	• • •	* * *	• • •	11	
				Total		T 020	
						1,039	
Opera	TIONS AT THE CO	NNAUGHT	AND EUROP	PEAN HOSPI	TALS I	N 1936.	
(1) Abdominal:			Cured.	Relieve		Unrelieved.	Died.
			. 208	 -	:		
	5		. 4			Manager Total	
		•	. 1	dire	:		
	ny-umbilical . ny-strangulated	• •	. 10			_	
	terostomy .	• •	1				3
Cholecyste			1	9 500			
Closure of	fæcal fistula .		1		•		
Enterector	my		. 1				1
Appendice			13			_	
Jejunostoi	my		1	_			1
Colostomy	ry laparotomy	•		3			
Aspiration	ry laparotomy . of ascites .	•	4			2	4
Splenector	ny		1	-		-	1
Aspiration	of liver abscess		0				I
Excision of	of retro peritone	eal lipoma					
(2) Ano-Rectal:							
	f hæmorrhoids		1				
Excision o	f anal fissure .		$\overset{1}{2}$	_		_	
Excision o	f anal fistula .		2				
	of hæmorrhoids			-			
Injection of		•	3			_	
Dilation of	forate anus		8			-	
Sigmoidos	forate anus . copy	• • •	1			11	
		• • •				11	
(3) Ear, Nose an	d Throat:						
Excision o	f ranula .		1	-			
Vastoidect	f nasal polypus		1	ŀ		_	
Enucleation	tomy .	adenoids	1			_	
Irrigation	of antrum .		0	$\frac{}{2}$			
Caldwell-L	uc operation .		1	_		_	_
Bronchose	opy					1	
Laryngosc	opy		_			3	
Oesophago	scopy .		-			1	
Tracheotor	ny	• • •					2

(4)	Eyes:		Cured.	Relieved.	Unrelieved.	Died.
	Enucleation		2			
	Iridectomy			1	_	
(5)	Genito-Urinary:		1	_		1
	Nephrectomy	• •	1		9	
	Cystoscopy		1		_	
	Excision of scrotum for elepha	ntiasis	34		_	
	Excision of hypertrophied so		34	_		
	Radical cure of hydrocele		123	_		_
	Suprapubic prostatectomy		2		_	
	Suprapubic puncture			3	_	
	Suprapubic cystostomy		3		_	
	Suprapubic cystostomy for sto	one	1	_		_
	Tapping of hydrocele		-	3	_	_
	Amputation of penis		1	336		$\frac{}{2}$
	Dilatation of stricture	• •	1	3		
	Perineal urethrotomy	٠.	9			
	Circumcision	• •	5			_
	Orchidectomy Excision of epididymis		1	_		_
	* *	• •	*			
(6)	Gynæcological:		20			1
	Hysterectomy		20	_		1
	Myomectomy	3 8	1	-		
	Uterine polypus	• •	1 11	2		
	Curettage		11	<u> </u>		1
	For extra uterine pregnancy Induction of labour	•	$\stackrel{\scriptscriptstyle{1}}{2}$			
	73 1 1 1	* *	1		_	
	Cæsarian section	• •	1	_	_	1
	Salpingo-oöphorectomy	• •	$\dot{2}$			
	Gilliams operation		1	_	_	
	Excision of ovarian cyst		2			_
	Dilatation of cervix		1			
	Cauterisation of cervix		6	_		_
	Colporrhaphy		1		_	
	Perineorraphy · · · · · · · · · · · · · · · · · ·		2		_	_
	For recto-vaginal fistula		1	_		
	Excision of elephantiasis of	breast	1	_		
	Excision of breast for carcino		_			1
	Excision of breast for intra		1			
	cular fibroma		1	_		
	Excision of breast for sarcoma		3			
	Repair of vesico-vaginal fistul For imperforate vagina		$\frac{3}{2}$			
	1 of imperiorate vagina	• •	4			
(7)	Head and Neck:					
(-)	Decompression of brain			1		
	Excision of goundou		2			
	For scalenus anticus syndrom	e	1	_	_	
	For sarcoma neck			1	_	
	Cyst of mandible	• •	1	1		
	Myeloma of mandible		1	1		
	Trephining Wiring of fractured jaw	• •	9	1	_	
	Wiring of fractured jaw	Þ	$\frac{2}{3}$			
	Thyroidectomy for goitre		1			
	Excision of epithelioma lip Ligature of carotid artery	• •	1			_
	Avulsion of supra orbital nerv	ve	î		_	_
	Avaision of supra orbital nor	, ,	•			
(8) Miscellaneous :					
,	Laminectomy		_			1
	Drainage of septic conditions		286			2
	Excision of glands		7			
	Excision of aneurysm of Ex		1			
	artery		220			
	Suture of wounds		330			
	Excision of rib for empyema	* *	7			
	Aspiration of pleura Extraction of teeth		198			
	Excision of cysts	• •	7			
	Transfusion of blood			3		1
	Removal of foreign bodies		40	_	_	
	Examination under anæsthes		_	_	1	
	Melanoma foot		1			_

(o) ormopicares.					
Reduction of fractures and separ	rated				
epiphyses		25		_	1
Open operation for fracture		7	_	_	
Reduction of dislocations		12			
Open operation for dislocation		$\dot{3}$			
Extension of fracture by mean	ns of				•
pins		18			
Drainage and sequestrectomy	for				
osteoniyelitis		12	_	_	1
For loose body in knee		1		_	
Aspiration of joints		2	_		_
Breaking down of adhesions in ic	ointe		G		

(9) Orthopædics

	Tondon suturing		,	4	0		
	Tendon suturing			Ţ		_	
	Myeloma of tibia			1	_	_	
	Amputation of toe			6	_		
	Amputation of finger			19	_	_	
	Plaster cases				36	_	_
(10) S	Skin and Subcutaneous	Tissues :					
	Debridement of burns			6	_	_	

5kin and Suoculaneous 118	ssues :					
Debridement of burns			6	_	_	
Excision of elephantiasis	leg		3	_		_
Excision of ulcer			3	_		_
			11		<u> </u>	_
Plastic operation		٠.	8	_		_
Excision of non-malignar	it tumoi	ırs	27	_		_
		-				
Total			1,625	404	28	26

Note.—(a) Dilatations of stricture of the urethra and rectum are placed under the heading "Relieved" in all cases.

(b) Diagnostic procedures such as cystoscopy and sigmoidoscopy are placed under the heading "Unrelieved".

OPERATIONS PERFORMED IN EUROPEAN HOSPITAL.

		Cured.	Relieved.	Unrelieved.	Died.
		 1	_	_	-
Appendicectomy		 5	_	_	
Tubal pregnancy		 1	_		_
Perforated duodenal ulc	er	 1	_	_	—
Tapping of hydrocele		 1	_	—	_
Curettage		 1	_	_	_
Extraction of teeth		 1		—	
Paraphimosis		 1	_	_	
Drainage of septic cond	itions	 3		_	
Cystoscopy		 _	_	2	_
Total	• •	 15	· —	2	

Two cases of Strangulated Internal Hernia.

Both of these cases were in men. The first was a man of 47 who was admitted on 22nd February, 1936 with a distended abdomen and a history of stoppage of the bowels for some days.

An enema produced no result. Although it was obvious that an obstruction was present no localisation was possible and the abdomen was opened under spinal, by a paramedian incision to the right of the umbilicus. A loop of small intestine was found to be strangulated in a peritoneal pouch in the region of the right obturator foramen. The obstruction was relieved and the opening stitched up. The bowel being viable the abdomen was closed. Post-operative distension was troublesome for some days and was not relieved by pituitrin intramuscularly, eserin or acetylcholine, but pituitrin intravenously relieved it immediately and dramatically. After this convalescence was uninterrupted.

The second case in a man of 38 was a much more serious affair. He was admitted with an exactly similar history and it was again impossible to locate the site of the obvious obstruction.

The abdomen was opened as before and an internal hernia again discovered. This had taken place through a small hole in the mesentery of the sigmoid colon and was composed of small intestine.

Two portions of small gut and the whole of the sigmoid colon were gangrenous and required resection, the end of the larger bowel being brought out and the small intestine anastomosed.

The patient's condition was bad at the beginning of the operation and it was hardly surprising that he did not survive such extensive gangrene.

RUPTURED KIDNEY.

A Sierra Leone Bus Driver was admitted on 25th December, 1935, with a history of being involved in a motor cycle accident and receiving a blow on the left side.

On admission he was in a condition of shock and complained of severe pain in the left loin. On examination the whole of the left side of the abdomen was found to be distended by a tender swelling.

No blood was present in the urine and the condition was thought to be an injury to an abdominal organ on the left side, most probably a rupture spleen.

Owing to the patient's condition operation was not immediately performed and under restorative measures he improved so much that operation was delayed until two weeks later pain and a persisting swelling in the left abdomen led to its becoming necessary.

Under spinal an incision over the swelling on the anterior aspect of the abdomen disclosed the fact that it was retroperitoneal so that the patient was turned over and an more incision revealed a ruptured kidney surrounded by urine—swelling blood—stained fluid and clots. The kidney was found to have been torn into two at the time of the accident and the two portions were lying several inches apart, while the renal vessels were torn through. The ureter was intact and after this had been divided the portions of kidney were removed and the wound dressed. Recovery was uneventful. A remarkable feature of this case was the lack of blood in the urine leading to a mistaken diagnosis.

RUPTURED DUODENAL ULCER.

An European seaman, 45 years of age, was admitted on 15th June, 1936, with a history of sudden very severe abdominal pain while at sea.

On admission the patient was collapsed and the abdominal wall rigid—all the symptoms were those of a gastric perforation and there was a definite history of previous gastric trouble.

At operation under chloroform the peritoneal cavity was found to be full of turbid fluid and a large perforation was present in the first part of the duodenum; this was closed and a drainage tube placed in the pelvis, the wound being also drained.

The patient did well immediately following operation but on the sixth day he complained of pain in his right chest and coughed up blood evidently the result of a small pulmonary infarct which kept him back somewhat; however, this cleared and he was discharged home fit a month after admission.

ANEURYSM OF EXTERNAL ILIAC ARTERY.

Senesie, a farmer, 30 years of age was admitted with a complaint of a painful swelling in the abdomen which had been present for some months and was slowly getting larger.

On examination an irrregularly circular tumour was found to be present in the right iliac fossa, it practically filled up this area and was somewhat tender to touch. No pulsation or fluctuation could be elicited and no evidence of the nature or origin of the tumour except that there was a positive Kahn test.

Under spinal the swelling was explored and after cutting through the muscle of the abdominal wall it was found to be adherent to the peritoneum. While endeavouring to isolate the swelling it burst and a sudden and alarming gush of blood made the diagnosis only too evident. Two fingers were immediately plunged into the opening and controlled the bleeding until packing made things secure. The external iliac artery was found to run into the proximal part of the aneurysm and it was tied just beyond the bifurcation of the common iliac; the femoral was also tied below. As much of the sac as possible was removed but as most of it was very adherent this removal was not persisted in—the remainder was packed with flavine paraffin and the wound left open to a large extent so that healing could take place from the bottom. N.A.B. and Bismuth were given and healing took place quickly.

Convalescence was uninterrupted, no signs of interruption of the circulation in the limb took place, and the patient was discharge fit and walking well.

EXTRA-UTERINE PREGNANCY.

A married woman 34 years of age was referred to be with a rather indefinite history that some six months previously she had had menstrual irregularities followed by amenorrhœa and pain in the lower abdomen. Some two and a-half months later she had been examined bimanually by her medical man who said that he felt a small round mass the size of an egg which was freely movable in the right iliac fossa and that during this examination the patient had a sudden severe pain and became very shocked.

Recovery from this acute condition followed but she continually suffered from pain and vomiting and on one occasion from bleedig from the uterus.

On admission the patient was obviously very ill and the urine full of albumen. Bimanually the uterus could be palpated anteriorly enlarged about one and a-half times while behind it was a foetus whose parts could be easily felt especially the head impacted in the pouch of Douglas; movements could also be felt.

After preparatory treatment to try and get the case into better condition the abdomen was opened under spinal and the living fœtus and placenta extracted from the abdominal cavity. The placenta was attached to the back of the uterus, intestines and omentum. Everything was jumbled up together and definition and separation were not easy, hæmorrhage being free.

The patient stood the operation well but the state of her kidneys was against recovery and despite blood transfusion she died on the second day after operation.

The well-formed fœtus was roughly 24 weeks old and lived only a few minutes—it had in all probability been extruded from the right tube during the bimanual examination on which the acute symptoms supervened.

ABNORMAL INNOMINATE ARTERY WITH PRESSURE SYMPTOMS (?) SCALENUS ANTICUS SYNDROME.

A woman was admitted complaining of pain in the right side of the neck running down over the shoulder along the arm—the duration was of some years but had become worse recently.

On examination definite pulsation was evident on that side of the neck extending from the sterno—clavicular joint up and laterally three inches. A diagnosis of aneurysm of the subclavian was made.

Under avertin and chloroform the swelling was explored and found to be a dilated abnormal innominate artery—it ran up and out from the sterno-clavicular joint and divided into carotid and subclavian arteries at the anterior border of the scalenus anticus. It was fairly superficial in its course and this and its dilatation had given rise to the pulsation.

The subclavian appeared to be kinked by a taut scalenus anticus behind which it angled rather suddenly and it was thought advisable to divide the scalenus anticus at its attachment to the first rib.

Following this procedure the patient's pains disappeared. So it is reasonable to suppose that a scalenus anticus syndrome of a comparatively mild nature existed, along with the abnormal artery.

Q. STEWART,
Senior Specialist.

B-MATERNITY WARD.

The maternity work of the Connaught Hospital is all carried out in one ward of 14 beds with a portion of the ward adapted as a labour ward. Dr. E. J. Wright was in charge until May 9th; Dr. W. J. Laird then took over until October 21st when Dr. Wright resumed duty.

During the year 607 patients were admitted to hospital and of this number 402 gave birth in the ward. There were 145 primiparæ and 257 multiparæ. Of the 402 patients giving birth, 260 had normal labours and 142 abnormal labours. A normal labour, for the purpose of this report, is considered one in which the pelvis is normal in size, the mother is apparently healthy and suffers no injury during the birth; the pregnancy single, the baby delivered alive without aid, the vertex presenting and no undue bleeding during the labour.

The 142 abnormal labours were:—

Eleven twin labours, 54 torn perinæums requiring suture, 5 torn labia and 72 various abnormalities which are recorded later in the report.

There were 6 maternal deaths among the 607 patients due to the following causes:— Cerebral malaria, pulmonary embolism, toxemia of pregnancy, post partum hæmorrhage, obsteric shock, collapse following dystocia.

Of the 22 twin children born in the ward, I was dead-born: 3 were still-born and the remaining 18 were born alive; of this number I died 36 hours after birth. The remaining 17 children left the ward alive.

Among the 391 single births there were 61 children lost; 30 were dead-born, 11 still-born and 20 died before the mothers left hospital.

The following Table I gives the chief feature of the 72 cases with various abnormalities. No case is counted twice but each is designated under its most salient feature.

		TAB	LE I.				
Dead-birth	• • •		•••		• • •		17
Forceps					• • •		16
Still-births	• • •		• • •				TO
Placenta prævia	• • •	• • •	•••	• • •	• • •	• • •	3
Breech		• • •	• •		• • •	• • •	3
Prematurity	• • •	• • •	• • •	•••	• • •	• • •	3
Craniotomy	• • •	• • •	•••	• • •	• • •	• • •	3
Face Paraistant appinits	····	• • •	* * *	• • •	• • •	• • •	2
Persistent occipito Retained placenta		• • •	•••	• • •	• • •	• • •	2 2
Transverse	• • •	• • •	•••	• • •	• • •	•••	ï
Brow	•••	• • •	• • •	* * *	• • •	• • •	ï
Eclampsia	•••	• • •	• • •	• • •	• • •		ī
A. P. eclampsia							I
Drug induction					• • •		T
Pulmonary tubercu	tlosis				•		I
Cerebral malaria							I
Toxæmia of pregna	ancy						I
Hydramnios			• • •	• • •			I
Cæsarian section			• • •	• • •		• • •	2
							72

There were 205 women admitted to the Maternity Ward besides the 402 who gave birth in the ward. The following Table II gives the principle feature of each case.

		TAB	LE II.				
Malaria							65
Obseravtion							71
False pains			•••		• • •		14
Abortion	• • •		• • •	• • •		• • •	15
Threatened abortion	•••	• • •		• • •		•••	I
Baby born before a	rrival	• • •	• • •	• • •		• • •	7
Pyelitis	• • •	• • •		• • •			I
Avitaminosis							9
Albuminuria	• • •		• • •			• • •	5
Swollen feet	•••	• • •	• • •	• • •		• • •	2
Ante-partum hæmor	rhage					• • •	2
Acute bronchitis	• • •	• • •	• • •	• • •	• • •		2
Pneumonia		• • •	• • •	• • •	• • •	• • •	I
Dental caries	• • •	• • •	• • •	• • •	* * *	• • •	I
Retained placenta	• • •		• • •	• • •		• • •	I
Epilepsy		• • •	• • •	• • •		• • •	I
Valvular disease of	the hea	.rt	• • •	• • •	• • •	• • •	I
Helminthiasis	• • •	• • •	• • •	• • •	• • •		,3
Amæbic dysentery	• • •	• • •	• • •	• • •			2
Jaundice	* * *	• • •	* * *	• • •			1
							205

There were no deaths among these patients.

C—ANTE-NATAL CLINIC.

This clinic was held on Tuesdays at the Maternity Centre in Oxford Street. Patients attending came from near and far. There were 716 individuals on the register for the year, a decrease of 29 compared with the year 1935 when the increase was 123 over the figure for the preceding year. Nevertheless, the number of deliveries taking place in the Maternity Ward shows an increase of 23 over the figure for 1935.

All patients attending for the first time have their histories taken and a careful internal pelvic examination is made in the case of primiparæ and other women with doubtful histories. Illness is treated, routine urine examinations made and advice given as to diet and mode of living. As in former years, food deficiency disease is prevalent in this clinic.

The following Table I gives the attendances month by month.

TABLE I.

Ante-Natal Clinic—Record of Attendances—January—December, 1936.

The Senior Health Visitor who spends all her mornings in charge of the Maternity Centre has done some visiting in connection with this clinic, and the following Table II is a record of this work during the year.

TABLE II.

Senior Health Visitor's Return of Ante-Natal Visits, 1936.

-		Month.			Total Number of Visits.	Number of Cases visited found to have delivered at Home.	Number of Cases visited found to have delivered in Hospital.
January February			• •		151 145	12	17
March		• •		• •	93	19 11	23
April		• •			153	14	19 24
May					131	$\frac{1}{12}$	22
June	• •				125	9	16
July	• •				1.50	12	19
August	• •	• •	• •	• •	140	17	8
September October	• •	• •	• •	- • •	177	10	10
	• •	• •			156	9	. 18
November	• •	• •	• •	• •	124	8	17
December	• •	• •	• •	• •	130	10	17
3-7 M 2 V		Total	• •		1,675	153	210

D—POST-NATAL CLINIC.

Throughout the year, Thursday mornings at the Maternity Centre were devoted to post-natal work. Patients who gave birth in the Maternity Ward were directed to attend at the centre on the first Thursday after their discharge from hospital. They were each given a discharge ticket which had necessary information concerning their cases entered up.

Mothers who had delivered at home were directed by the District Nurses to attend this clinic where they and their children were supervised and given necessary advice and treatment for a month, after which period the children were drafted to one of the infant clinics, and the mothers if considered well were discharged. There were 477 individuals attending this clinic this year, an increase of 99 over last year. The following Table gives the number of individuals and subsequent attendances month by month, throughout the year.

Post-Natal Clinic—Record of Attendances—January to December, 1936.

	Month.		New Cases.	Subsequent Attendances.	Total.
January February March April May June July August September October November December			54 46 30 55 43 31 42 22 31 48 32 43	67 73 23 62 53 69 62 37 43 68 69 55	121 -119 -53 -117 -96 -100 -104 -59 -73 -116 -101 -98
	Total	 	477	680	1,157

E-INFANT WELFARE CLINIC.

Infant clinics were held throughout the year at the Maternity Centre on Mondays, Wednesdays and Fridays. These clinics were well attended and there were 536 individuals on the register for the year who amongst them recorded 12,584 subsequent attendances, which gives an average attendance of once a fortnight.

The staff attached to the Maternity Centre consists of a Senior Health Visitor, two Health Visitors and a Midwife. Their work is directly supervised by a Medical Officer and the pupil midwives also attend. As far as possible, children are given definite days when they should attend and thus, it is possible to arrange that the Health Visitor in charge of the district from which the child comes attends also on that particular day to assist at the clinic.

The general method of working remained the same as last year. The Health Visitors regularly obtained lists of newly-born babies in the districts from the Registrar and made it their business to visit them; and whilst doing this, attended and advised any children under three years of age that they met on their visits, all the time looking up their old cases.

The following Table I gives the work done by the Health Visitors month by month, during the year.

TABLE I.

Health Visitors—Record of Visits—January to December, 1936.

	Month.		Newly-born.	New Cases.	Repeated Visits.
January February March April May June July August September October November December	 		78 67 86 63 59 75 68 42 59 61 63 68	15 12 9 19 17 4 12 9 7 7 7 14 11	818 1,034 717 992 532 553 1,065 851 881 968 815 963

There were 536 individuals on the register for the year and the following Table II shows the monthly attendance. The high figure for February is explained by the stimulus the Baby Competition gives to the work. The competition was held in March this year.

TABLE II.

No. of State Associated Spring State State Spring State State Spring State Sta	 Month.		New Cases.	Subsequent Attendances.	Total.	
January February March April May June July August September October November December	 		40 44 45 28 51 44 52 40 47 52 44 49	1,126 1,321 907 840 1,075 869 1,061 1,010 1,084 1,198 1,133 960	1,166 1,365 952 868 1,126 913 1,113 1,050 1,131 1,250 1,177 1,009	

The following Table III gives the ages at which children were brought to the Post-Natal and Infant Welfare Clinics. The year 1935 was the first full year of operation of the Post-Natal Clinic, consequently the number of every young children attending was large—this year there has been a welcome decrease in the number of children under two weeks of age attending, although the total number of individuals for the year showed an increase.

TABLE III.

Ages at which Children were brought to the Post-Natal and Infant Welfare Clinics.

	Age.						1934.	1933.	1932.
Under 1 week " 2 weeks 2 weeks—1 month 1—3 months 3—6 months . 6—12 months 1—2 years . 2—3 years . Total					53 127 240 100 72 55 76 36	164 195 77 84 64 44 48 36	37 96 142 175 97 62 64 44	60 109 156 161 58 94 80 46	27 100 159 167 94 113 116 30

During the year there were 1,437 births registered in Freetown with 303 deaths under months, showing an infantile mortality rate of 210.

TABLE IV.

Year.				Births Registered.	Deaths under Twelve Months.	Infantile Mortality Rate.	
1931 1932 1933 1934 1935 1936				 1,263 1,276 1,378 1,339 1,358 1,437	365 348 317 312 308 303	288 272 230 233 227 210	

These figures are given for comparison and they show progress.

E. J. WRIGHT.

Senior Medical Officer (Sierra Leone), in-charge Clinics and Maternity Centre.

Connaught Hospital, Freetown, 22nd February, 1937.

F-ANNUAL REPORT ON THE EYE CLINIC, 1936.

Since 25th May, on which date the clinic re-opened, the following attendances have been registered:—

 New eases
 ...
 ...
 ...
 ...
 ...
 464

 Sub-attendances
 ...
 ...
 ...
 ...
 ...
 1,236

The usual two afternoon sessions a week, between 1 p.m. and 6 p.m. have been followed.

All arsenieal injections were given in the eye clinic at the time of the patients' attendance. Acetylarsan was the drug used.

In addition measurements were taken for all spectacle frames for which the prescription has to be sent to England for dispensing. In the ease of those which could be dispensed locally, the spectacles were brought to the clinic for cheeking. One-third of the spectacles were dispensed locally.

Below is an analysis of eases.

Disease.						
Affections of Lids:						
Blepharitis						1
Chalazion					• •	9
Eezema			• •	• •	• •	1
Hordeolum	• •	• •	• •	• •	• •	1
Affections of Conjunctiva:						
Conjunctivitis					• •	64
,, phlyeter		• •	• •	• •	• •	4
" aeute pu	ırulent	• •		• •	• •	4
Cyst	• •	• •	• •	• •	• •	1
Foreign body			• •	• •	• •	2 6
Hæmorrhage, sub-eonju	inetivai	• •	• •	• •	• •	5
Pterygium	• •	• •	• •	• •	• •	1
Pseudo-pterygium	• •	• •	• •	• •	• •	11
Trachoma	• •	• •	• •	• •	• •	11
Affactions of Sclava:						
Affections of Sclera: Episeleritis						2
Episeleritis	• •	• •	• •	• •	•	
1 C						
Affections of Cornea:						5
Foreign body	• •	• •	• •	• •	• •	
Keratitis interstitial	• •	• •	• •	• •		$\frac{8}{2}$
11 1 1	• •	• •	• •	• •	• •	1
,, phlyctenular Leucoma		• •	• •			$\hat{6}$
adherene						1
Nebula						1
Uleer						12
Wound, perforating						1
71						
Affections of Iris and Ciliary	v Bodv:					
Ciliary gumma	••					1
Cyclitis						9
Irido-eyclitis						39
Mydriasis, traumatic						1
· ·						
Affections of Choroid and Re	etina :					
Choroido-retinitis			• •			12
Choroiditis, disseminate	ed					1
Retinitis			• •	• •		1
Retinitis pigmentosa			• •		• •	1
Albuminuric neuro-reti	initis				• •	1
Retinal detachment			• •			1
Retinal hæmorrhage			• •	• •	• •	2
Uveitis			• •	* *	• •	I
Affections of Ottio Manne						
Affections of Optic Nerve:						16
Primary optic atrophy		• •	• •	• •	• •	, J
Affections of Vitreous:						
Opacities						1
o puetros						

Disease.						
Affections of Lens: Cataract	• •					3
,, senile	• •		• •		• •	9
,, traumatic ,, secondary			• •			1
,, secondary		• •	• •	• •	• •	1
Emana of Defunction .						
Errors of Refraction: Hypermetropia			• •			16
Hypermetropic astig						6
Compound hypermet Myopia	_	igmatism	1			6 6
Myopic astigmatism						1
Compound myopic as Mixed astigmatism	stigmatis	sm			• •	8 5
Anisometropia			• •	• •		1
Presbyopia		• •	• •	• •	• •	19
Errors of Accommodation Paralysis						0
Paraiysis	• •	• •	• •	• •	• •	2
Miscellaneous: Amblyopia						38
Amblyopia ex avitan	ninosis					56
Minor symptoms due Concussion of eyebal		minosis	* *		• •	5 1
Contusion of eyeball		• •				2
Glaucoma, chronic Lachrymal adenitis		• •	• •	• •		3
Panophthalmitis		• •				1
Periostitis of orbit Photophobia						1
Nuclear lesion 3.6.7						1
Trigeninal neuralgia Old enucleation		• •				1
Nothing abnormal fo	und					13
Undiagnosed (i.e. did	1 not ret	urn for c	ompletion	of diag	(nosis)	19
Total			• •			464
						CONTRACTOR I
Opt	(T) 1 (T) 1 (S) 1 (S)	Dana	D 3 64'E)			
	RATIONS	PERFO	KMED.			
Chalazion	•••	•••	• • •	* * ¢	• •	3
Evisceration of eyeball		•••	•••	• • •	• • •	2
Peritomy	· • •		•••		• • •	I
Preliminary iridectomy	7	•••	•••			I
Contracted socket	• • •	. 1 .	• • •	• • •	•••	I
Saemisch section		• • •	•••	•••	• • •	I
Psedo-pterygium		• • •	•••			I
Curettage of globe		•••	•••		•••	I
<i>y</i> 6	• • •	• • •	•••	• • •	• • •	I
Paracentesis	•••	. • •	• • •	• • •	• • • •	1
			Total	• • •	٠٠.	13

E. S. WALLS,

Senior Medical Officer.

G-VENEREAL DISEASE CLINIC.

VENEREAL DISEASE RETURN, 1936.

			New Cases.		Su	bsequent Cas	Es.
Disease		Government.	Non- Government.	Female.	Government.	Non- Government.	Total.
Gonorrhæa Gonorrhæal arthritis Gonorrhæal rheumati Epididymitis Leucorrhæa Vaginitis Orchitis Balanitis Bubo Urinary fistula Peri-urethral abscess Urethral stricture Yaws iii Ulcer penis Ulcer scrotum Syphilis Granuloma Venereal warts Herpes Perineal abscess Retention of urine Vaginal ulcer E. meningitis G.C. conjunctivitis N. A. D	sm	7 2	289 5 6 3 — 6 2 18 6 9 3 94 1 52 2 1 1 2 — 1 1	18 1 ——————————————————————————————————	250 2 — — 6 — 1 2 226 — 8 — — — — — — — — —	6,056 42 79 7 36 31 59 8 285 71 ———————————————————————————————————	6,306 44 79 7 36 31 65 8 285 71 1 21 3 3,658 — 567 30 — 43 — 41 10 15 —
Total		47	502	30	505	10,816	11,321

ATHOL J. JOHNSON,

Medical Officer-in-charge, Venereal

Disease Clinic.

Connaught Hospital, Freetown, 18th February, 1937.

H-FREETOWN METEOROLOGICAL OBSERVATIONS, TOWER HILL, 1936.

						AIR TEMPERA	PERATURE.							The state of the s
	Month.		Mean Pressure.	3	Ę		Means of	Means of Absolute.		Relative Humidity.	Total.	Rainfall Maximum.	Inches Date.	Number of Days Rain.
		-		3 a.ra.	Mean.	Minimum. Max	. Maximum.	imum. Minimum Maximum	Vaximum.					
Latitude 8° 27' N.	January .	•	29.942	78.8	6.62	73.5	86.3	89	98 -	85.3 85.3	nil	<u> </u>	lin lin	lin
Longitude 13° 9′ W.	February .		29.934	0.08	80.8	74.5	87.2	72	94	78.8	0.02	0.03	28th	-
	March .		29.943	81.6	81.9	74.8	89.1	71	95	74.5	1.03	0.40	29th	· -1
Barometer Cistern 180 5 ft.	April		29.939	81.0	81.0	7.4.2	6.78	89	92	83.8	6.81	2.94	i9th	· <u>9</u>
Site of Kain Gauge 171 ft.	May		29.936	80.7	0.08	72.8	87.3	89	92	82.1	17.87	2.96	26th	23
	June .		59.999	79.5	77.9	71.2	84.6	67	88	83.0	18.28	3.18	15th	9.6
	$\int u \mathrm{ly} \dots$		30.015	75.9	75.8	6.02	8.08	89	\$4	0.88	25.03	3.62	28th	
	August .		086 - 62	75.9	76.7	72.7	2.08	69	84	87.6	27.45	2.70	10th	9.4
	September .	-	29.971	77.3	78.8	73.3	82.7	20	87	0.88	26.43	3.71	14th	2.7
	October .		096.67	79.1	79.4	73.2	85.6	69	68	83.2	10.09	1.58	III	97
	November .		29.924	0.08	0.08	74.7	85.4	71	68	83.9	10.01	4.50	20th	<u> </u>
	December .		29 - 937	0.08	80.8	75.5	86.2	72	68	79.3	0.48	0.33	12th	၃ က
	YEAR .	:	29.956	79.1	79.4	73.4	85.3	69.4	89.3	82.8	82.8 144.40	4.50	20th Nov.	190
		-	-											
													-	

I-GOVERNMENT HOSPITAL BED ACCOMMODATION.

Remarks.		For European and Wilberforce Barracks		•		_											_	_		
	Medical Staff.			ic			1	pose(,(_		1		
	Dispensarios.			-						_			y			_				
	Number of Beds possible.	E	!	40 & 5	cots	sexes	1	15	10	16	7	S	9	9		38	35	1		4
AFRICAN.	Number	M.		70 & 5	cots	28 both	10	17	18	19	20	18	14	14		52	38	17		27
AF	Total Beds at present.	E		40 & 5	cots	sexes	i	15	0.1	91	7	a)	7	9		38	35			4
	Total pre	M.		70 & 5	cots	Ч	01	17	8	61	20	8	7	17		52	38	17		27
	Number of Beds possible.	: E i	sexes				1						-					1		
BUROPEAN.	Numbe	M.	14 both sexes	Name and			-	1	1				74							
Euro	Total Beds at present.	Ħ	sexes	1			-		<u> </u>											
	Total	M.	14 both sexes				1		1					-		1				
Hospital.	African.			-						_										
Hos)	European.			1			j	1	-	ļ						1		i 		
			European Hospital	Connaught Hospital		Cape Quarantine	Wilberforce Barracks	Pujehun Hospital	Daru Hospital	Bonthe Hospital	Bo Hospital	Makeni Hospital	Port Loko Hospital	Moyamba Hospital	Kissy (a) Lunatic	Asylum	(b) Infirmaries	(c) Leper Asylum	(d) Infectious Dis-	eases

(qualified) (qualified) (qualified) (qualified) (qualified) Medical Staff. Dispenser. 10 beds (both sexes) 10 beds (both sexes) 18 beds (both sexes) 18 beds (both sexes) 12 beds (both sexes) 12 beds (both sexes) 24 beds (both sexes) 24 beds (both sexes) Females. 33 No of Beds possible. Males. AFRICAN. Females. J-SUBSIDISED MISSION HOSPITAL BED ACCOMMODATION. 35 Total Beds at present. Males. Females. **C**1 No. of Beds possible. Males. EUROPEAN. Females. S Total Beds at present. Males. European. | African. HOSPITAL. : Jaiama Hospital (United Brethren in Christ Mission) (United Brethren in Christ Mission) : Princess Christian Mission Hospital (Wesleyan Methodist Mission) (American Wesleyan Mission) Kamakwie Hospital Segbicema Hospital Tiama Hospital

